

Jacob J. Oleson, PhD

College of Public Health Curriculum Vitae
Department of Biostatistics
jacob-oleson@uiowa.edu
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Educational and Professional History

Degrees Earned

1997	BA in Mathematics, Central College, Pella, Iowa
1999	MA in Statistics, University of Missouri-Columbia, Columbia, Missouri
2002	PhD in Statistics, University of Missouri-Columbia, Columbia, Missouri

Employment History

1997 - 2000	Graduate Instructor, University of Missouri-Columbia, Columbia, Missouri
1999 - 2002	Research Assistant, Biostatistics, University of Missouri-Columbia, Columbia, Missouri
2000 - 2002	Research Assistant, Missouri Department of Conservation, University of Missouri-Columbia, Columbia, Missouri
2002 - 2004	Assistant Professor, Department of Mathematics and Statistics, Arizona State University
2004 - 2012	Assistant Professor, Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa
2012 - 2018	Associate Professor, Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa
2014 - Present	Director, Center for Public Health Statistics, Department of Biostatistics, University of Iowa, Iowa City, Iowa
2015 - Present	Director of Graduate Studies, Department of Biostatistics, University of Iowa, Iowa City, Iowa
2018 - Present	Professor, Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa

Honors and Awards

2000	Donald K. Anderson Graduate Student Teaching Award
2002	Donald K. Anderson Graduate Research Assistant Award
2005	Who's Who in Health Sciences Education, AcademicKeys
2009	One of the Best of 2008 Audiology Literature: Cochlear Implants
2008 - 2010	Thank a Teacher Note of Appreciation, Center for Teaching
2012	2012 Faculty Teaching Award, College of Public Health
2012	Top Cited Paper Impact Factor for 2011 (Hybrid 10 Clinical Trial), Audiology & Neurotology

- 2013 2012 ASHA Editors' Award for the American Journal of Audiology, American Speech-Language-Hearing Association
Article: "Factors Influencing Follow-Up to Newborn Hearing Screening for Infants Who Are Hard of Hearing"
- 2013 Thank a Teacher Note of Appreciation, Center for Teaching
- 2015 Delta Omega Honor Society
- 2016 Special Recognition Award to the Outcomes in Children with Hearing Loss Supplement, Editors of Ear and Hearing
The Editorial Board of Ear and Hearing will give Special Recognition at the 2016 American Auditory Society Meeting in Scottsdale, AZ March 3-5, 2016.
- 2019 CPH Faculty Service Award, College of Public Health, The University of Iowa, Iowa City, Iowa
- 2020 2020 Editor's Award for "Ear and Hearing" article "Efficacy and Effectiveness of Advanced Hearing Aid Directional and Noise Reduction Technologies for Older Adults with Mild to Moderate Hearing Loss", Ear and Hearing, 40(4):805-822, 2019
- 2020 CPH Faculty Research Award, College of Public Health, The University of Iowa, Iowa City, Iowa
- 2021 2021 Editor's Award for "American Journal of Audiology" article, "Toward a New Evidence-Based Fitting Paradigm for Over-the-Counter Hearing Aids", American Journal of Audiology
- 2022 2022 Editor's Award for "Gynecologic Oncology" for article "Defining the Essential Role of the Gynecologic Oncologist in Rural Ovarian Cancer Care Delivery". 164(1):3-11, 2022., Gynecologic Oncology

Teaching

Course Teaching

University of Iowa

- Fall 2004 Intro to Biostatistics, 171:161, Credit Hours: 3, Enr: 75, Percent of Course: 100.0%
- Spring 2005 Intro to Biostatistics, 171:161, Credit Hours: 3, Enr: 66, Percent of Course: 100.0%
- Spring 2006 Des & Anal of Exper in Biomed Studies, 171:162, Credit Hours: 3, Enr: 56, Percent of Course: 100.0%
- Fall 2006 Intro to Biostatistics, 171:161, Credit Hours: 3, Enr: 102, Percent of Course: 100.0%
- Spring 2007 Biostatistics Methods II, 171:202, Credit Hours: 4, Enr: 15, Percent of Course: 100.0%
- Fall 2007 Introduction to Biostatistics WWW, 171:161, Credit Hours: 3, Enr: 19, Percent of Course: 100.0%
- Spring 2008 Design & Analysis of Biomedical Studies, 171:162, Credit Hours: 3, Enr: 59, Percent of Course: 100.0%
- Fall 2008 Introduction to Biostatistics WWW, 171:161, Credit Hours: 3, Enr: 26, Percent of Course: 100.0%
- Spring 2009 Design & Analysis of Biomedical Studies, 171:162, Credit Hours: 3, Enr: 63, Percent of Course: 100.0%

Fall 2009	Independent Study, 171:281, Credit Hours: 2, Enr: 1, Percent of Course: 100.0%
Fall 2009	Introduction to Biostatistics EXW, 171:161, Credit Hours: 3, Enr: 29, Percent of Course: 100.0%
Spring 2010	Design & Analysis of Biomedical Studies, 171:162, Credit Hours: 3, Enr: 37, Percent of Course: 100.0%
Summer 2010	Design & Analysis of Biomedical Studies, 171:162, Credit Hours: 3, Enr: 13, Percent of Course: 25.0%
Summer 2010	Design & Analysis of Biomedical Studies, 171:162:SCA
Fall 2010	Introduction to Biostatistics EXW, 171:161, Credit Hours: 3, Enr: 20, Percent of Course: 100.0%
Spring 2011	Design & Analysis of Biomedical Studies, 171:162, Credit Hours: 3, Enr: 56, Percent of Course: 100.0%
Spring 2011	Practicum in College Teaching, EDTL:7380:0IND, Credit Hours: 2, Enr: 1, Percent of Course: 100.0%
Summer 2011	Design & Analysis of Biomedical Studies, 171:162, Credit Hours: 3, Enr: 13, Percent of Course: 15.0%
Fall 2011	Applied Categorical Data Analysis, 171:241, Credit Hours: 3, Enr: 18, Percent of Course: 100.0%
Spring 2012	Biostatistical Methods II, 171:202, Credit Hours: 4, Enr: 15, Percent of Course: 100.0%
Spring 2012	Independent Study, 171:281, Credit Hours: 3, Enr: 2, Percent of Course: 100.0%
Summer 2012	Design and Analysis of Biomedical Studies, 171:162, Credit Hours: 3, Enr: 16, Percent of Course: 15.0%
Summer 2012	Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 1, Percent of Course: 100.0%
Fall 2012	Applied Categorical Data Analysis, 171:241, Credit Hours: 3, Enr: 16, Percent of Course: 100.0%
Fall 2012	Independent Study, 171:281, Credit Hours: 3, Enr: 1, Percent of Course: 100.0%
Fall 2012	Introduction to Biostatistics EXW, 171:161, Credit Hours: 3, Enr: 32, Percent of Course: 15.0%
Fall 2012	Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 1, Percent of Course: 100.0%
Spring 2013	Design & Analysis of Biomedical Studies, 171:162, Credit Hours: 3, Enr: 44, Percent of Course: 100.0%
Spring 2013	Introduction to Biostatistics, 171:161:EXW, Credit Hours: 3, Enr: 22, Percent of Course: 15.0%
Spring 2013	Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 2, Percent of Course: 100.0%
Summer 2013	Design and Analysis of Biomedical Studies, 171:162, Credit Hours: 3, Enr: 14, Percent of Course: 15.0%
Fall 2013	Advanced Biostatistics Seminar: Spatial Statistics for Public Health Data, 171:290:002, Credit Hours: 2, Enr: 7, Percent of Course: 100.0%

Fall 2013	Introduction to Biostatistics, 171:161:EXW, Credit Hours: 3, Enr: 38, Percent of Course: 15.0%
Spring 2014	Biostatistical Methods II, 171:202, Credit Hours: 4, Enr: 11, Percent of Course: 100.0%
Spring 2014	Independent Study, 171:281, Credit Hours: 1, Enr: 1, Percent of Course: 100.0%
Spring 2014	Introduction to Biostatistics, 171:161:EXW, Credit Hours: 3, Enr: 26, Percent of Course: 15.0%
Spring 2014	Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 1, Percent of Course: 100.0%
Summer 2014	Design and Analysis of Biomedical Studies, 171:162, Credit Hours: 3, Enr: 6, Percent of Course: 15.0%
Summer 2014	Independent Study, 171:281, Credit Hours: 2, Enr: 1, Percent of Course: 100.0%
Summer 2014	Introduction to Biostatistics, 171:161:EXW, Credit Hours: 3, Enr: 16, Percent of Course: 15.0%
Summer 2014	Regression Analysis for Biomedical Studies, 171:282, Credit Hours: 2, Enr: 5, Percent of Course: 15.0%
Fall 2014	Introduction to Biostatistics, BIOS:5110:EXW, Credit Hours: 3, Enr: 29, Percent of Course: 15.0%
Fall 2014	Introductory Longitudinal Data Analysis, BIOS:6610, Credit Hours: 3, Enr: 21, Percent of Course: 15.0%
Fall 2014	Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 2, Percent of Course: 100.0%
Spring 2015	Introduction to Biostatistics, BIOS:5110:0EXW, Credit Hours: 3, Enr: 27, Percent of Course: 5.0%
Spring 2015	Longitudinal Data Analysis, BIOS:7310:0001, Credit Hours: 3, Enr: 21, Percent of Course: 100.0%
Spring 2015	Preceptorship in Biostatistics, BIOS:7500:0137, Percent of Course: 100.0%
Spring 2015	Thesis/Dissertation, BIOS:7900:0137, Percent of Course: 100.0%
Summer 2015	Design & Analysis of Biomedical Studies, BIOS:5120:0001, Credit Hours: 3, Enr: 5
Summer 2015	Introduction to Biostatistics, BIOS:5110:0EXW, Credit Hours: 3, Enr: 14
Summer 2015	Problems/Special Topics in Biostatistics, BIOS:7700:0001, Credit Hours: 2, Enr: 4
Fall 2015	Introduction to Biostatistics, BIOS:4120:0EXW, Credit Hours: 3, Enr: 36
Fall 2015	Introductory Longitudinal Data Analysis, BIOS:6310:0001, Credit Hours: 3, Enr: 18
Fall 2015	Introductory Longitudinal Data Analysis, STAT:6550:0001, Credit Hours: 3, Enr: 16
Spring 2016	Introduction to Biostatistics, BIOS:4120:0EXW, Credit Hours: 3, Enr: 31, Percent of Course: 10.0%
Spring 2016	Thesis/Dissertation, BIOS:7900:0137, Percent of Course: 100.0%
Fall 2016	Research Data Management, BIOS:5310:1, Percent of Course: 100.0%
Fall 2016	Thesis/Dissertation, BIOS:7900:3332, Percent of Course: 100.0%
Spring 2017	Longitudinal Data Analysis, BIOS:7310:0001, Percent of Course: 100.0%
Spring 2017	Thesis/Dissertation, BIOS:7900:4944, Percent of Course: 100.0%

Fall 2017	Advanced Biostatistics Seminar, BIOS:7600:2, Percent of Course: 100.0%
Fall 2017	Preceptorship in Biostatistics, BIOS:7500:7431, Percent of Course: 100.0%
Fall 2017	Thesis/Dissertation, BIOS:7900:6454, Percent of Course: 100.0%
Spring 2018	Independent Study in Biostatistics, BIOS:7800:9808, Percent of Course: 100.0%
Spring 2018	Survey Design and Analysis, EPID:6420:0001, Percent of Course: 100.0%
Spring 2018	Thesis/Dissertation, BIOS:7900:8670, Percent of Course: 100.0%
Summer 2018	Independent Study in Biostatistics, BIOS:7800:0508, Percent of Course: 100.0%
Summer 2018	Introduction to Biostatistics, BIOS:4120:0001, Percent of Course: 1.0%
Fall 2018	Independent Study in Biostatistics, BIOS:7800:1749, Enr: 1, Percent of Course: 100.0%
Fall 2018	Preceptorship in Biostatistics, BIOS:7500:1648, Enr: 1, Percent of Course: 100.0%
Fall 2018	Thesis/Dissertation, BIOS:7900:1013, Enr: 3, Percent of Course: 100.0%
Spring 2019	Longitudinal Data Analysis, BIOS:7310:0001, Credit Hours: 3, Enr: 10, Percent of Course: 100.0%
Spring 2019	Preceptorship in Biostatistics, BIOS:7500:2909, Enr: 1, Percent of Course: 100.0%
Spring 2019	Thesis/Dissertation, BIOS:7900:3383, Enr: 4, Percent of Course: 100.0%
Summer 2019	Introduction to Biostatistics, BIOS:4120:0001, Credit Hours: 3, Enr: 7, Percent of Course: 2.0%
Fall 2019	Independent Study in Biostatistics, BIOS:7800:6903, Enr: 1, Percent of Course: 100.0%
Fall 2019	Thesis/Dissertation, BIOS:7900:5988, Enr: 2, Percent of Course: 100.0%
Spring 2020	Survey Design and Analysis, EPID:6420:0001, Credit Hours: 3, Enr: 28, Percent of Course: 100.0%
Spring 2020	Thesis/Dissertation, BIOS:7900:7247, Enr: 3, Percent of Course: 100.0%
Spring 2021	Introduction to Biostatistics, BIOS:4120:0A01, Credit Hours: 3, Enr: 27, Percent of Course: 100.0%
Spring 2021	Introduction to Biostatistics, BIOS:4120:0A02, Credit Hours: 3, Enr: 28, Percent of Course: 100.0%
Spring 2021	Introduction to Biostatistics, BIOS:4120:0A03, Credit Hours: 3, Enr: 24, Percent of Course: 100.0%
Spring 2021	Introduction to Biostatistics, BIOS:4120:0A04, Credit Hours: 3, Enr: 27, Percent of Course: 100.0%
Spring 2021	Introduction to Biostatistics, BIOS:4120:0AAA, Enr: 106, Percent of Course: 100.0%
Spring 2022	Survey Design and Analysis, EPID:6420:0001, Credit Hours: 3, Enr: 19, Percent of Course: 100.0%
Spring 2023	Advanced Biostatistics Seminar, BIOS:7600:0002, Credit Hours: 2, Enr: 15, Percent of Course: 100.0%
Spring 2024	Survey Design and Analysis, EPID:6420:0001, Credit Hours: 3, Enr: 23, Percent of Course: 100.0%
Summer 2024 - Summer 2024	Introduction to Biostatistics, BIOS:4120:0EXW, Credit Hours: 3, Enr: 55, Percent of Course: 100.0%

Fall 2024	Introduction to Biostatistics, BIOS:4120:0EXW, Credit Hours: 3, Enr: 54, Percent of Course: 100.0%
Spring 2025	Introduction to Biostatistics, BIOS:4120:0EXW, Credit Hours: 3, Enr: 63, Percent of Course: 100.0%
Spring 2025	Longitudinal Data Analysis, BIOS:7310:0001, Credit Hours: 3, Enr: 13, Percent of Course: 100%
Spring 2026	Survey Design and Analysis, EPID:6420:0001, Credit Hours: 3, Enr: 33, Percent of Course: 100.0%
Spring 2026	Independent Study in Biostatistics, BIOS:7800:2101, Credit Hours: ARR, Enr: 1, Percent of Course: 100.0%

Other Institutions

Spring 1998	Introduction to Business Statistics I, 150:***:***, University of Missouri-Columbia, Credit Hours: 3, Enr: 80, Percent of Course: 90.0%
Summer 1998	Introduction to Business Statistics I, 150:***:***, University of Missouri-Columbia, Credit Hours: 3, Enr: 34, Percent of Course: 90.0%
Fall 1998	Introduction to Business Statistics I, 150:***:***, University of Missouri-Columbia, Credit Hours: 3, Enr: 117, Percent of Course: 90.0%
Spring 1999	Introduction to Business Statistics I, 150:***:***, University of Missouri-Columbia, Credit Hours: 3, Enr: 91, Percent of Course: 90.0%
Summer 1999	Introduction to Business Statistics II, 250:***:***, University of Missouri-Columbia, Credit Hours: 3, Enr: 22, Percent of Course: 90.0%
Fall 1999	Introduction to Business Statistics II, 250:***:***, University of Missouri-Columbia, Credit Hours: 3, Enr: 87, Percent of Course: 90.0%
Spring 2000	Introduction to Business Statistics II, 250:***:***, University of Missouri-Columbia, Credit Hours: 3, Enr: 87, Percent of Course: 90.0%
Fall 2002	Elementary Statistics, 266:***:***, Arizona State University, Credit Hours: 3, Enr: 41, Percent of Course: 100.0%
Fall 2002	Introduction to Applied Statistics, 420:***:***, Arizona State University, Credit Hours: 3, Enr: 44, Percent of Course: 100.0%
Spring 2003	Applied Multivariate Analysis, 533:***:***, Arizona State University, Credit Hours: 3, Enr: 23, Percent of Course: 100.0%
Fall 2003	Introduction to Applied Statistics, 420:***:***, Arizona State University, Credit Hours: 3, Enr: 48, Percent of Course: 100.0%
Fall 2003	Probability, 421:***:***, Arizona State University, Credit Hours: 3, Enr: 47, Percent of Course: 100.0%
Spring 2004	Applied Multivariate Analysis, 533:***:***, Arizona State University, Credit Hours: 3, Enr: 22, Percent of Course: 100.0%
Spring 2004	Probability, 421:***:***, Arizona State University, Credit Hours: 3, Enr: 42, Percent of Course: 100.0%

Publications or creative works

Peer-reviewed papers and journal articles

1. Cavanaugh, J. E. & **Oleson, J. J.** (2001). A diagnostic for assessing the influence of cases on the prediction of missing data. (Vols. 50). pp. 1-14. *Journal of the Royal Statistical Society, Series D*.
2. **Oleson, J. J.** & He, C. Z. (2004). Hierarchical Bayesian modeling in dichotomous processes in the presence of nonresponse. (Vols. 60). pp. 50-59. *Biometrics*. [PMID: 15032773](#).
3. Blinn-Pike, L., Berger, T. J., Hewett, J. E. & **Oleson, J. J.** (2004). Sexually abstinent adolescents: An 18 month follow-up. (Vols. 19). pp. 494-511. *Journal of Adolescent Research*.
4. **Oleson, J. J.** & He, C. Z. (2004). Space-time modeling for the Missouri Turkey Hunting Survey. (Vols. 11). pp. 85-101. *Environmental and Ecological Statistics*.
5. Hope, D., Gries, C., **Oleson, J. J.**, Kaye, J., Jenerette, D., Zhu, W., Grimm, N. & Baker, L. (2005). Spatial variation in soil inorganic nitrogen across an arid urban ecosystem. (Vols. 8). pp. 251-273. *Urban Ecosystems*.
6. **Oleson, J. J.**, Hope, D., Gries, C. & Kaye, J. (2006). Estimating soil properties in heterogeneous land-use patches: A Bayesian approach. (Vols. 17). pp. 517-525. *Environmetrics*.
7. Gfeller, K. E., Olszewski, C., Turner, C., Gantz, B. & **Oleson, J. J.** (2006). Music perception with cochlear implants and residual hearing. (Vols. 11). (1), pp. 12-15. *Audiology and Neurotology*. [PMID: 17063005](#).
8. **Oleson, J. J.**, Smith, B. J. & Kim, H. (2007). Joint spatio-temporal modeling of low incidence cancers sharing common risk factors. (Vols. 6). (1), pp. 105-123. *Journal of Data Science*.
9. Tyler, R. S., **Oleson, J.**, Noble, W., Coelho, C. & Ji, H. (2007). Clinical trials for tinnitus: Study populations, designs, measurement variables, and data analysis. (Vols. 166). pp. 499-509. *Progress in Brain Research*.
10. Gfeller, K., Turner, C., **Oleson, J.**, Zhang, X., Gantz, B., Froman, R. & Olszewski, C. (2007). Accuracy of cochlear implant recipients on pitch perception, melody recognition, and speech reception in noise. (Vols. 28). (3), pp. 412-423. *Ear and Hearing*. [PMID: 17485990](#).
11. **Oleson, J. J.**, He, C. Z., Sun, D. & Sheriff, S. (2007). Bayesian estimation in small areas when the sampling sub-domain differs from the study sub-domain. (Vols. 33). pp. 173-186. *Survey Methodology*.
12. **Oleson, J.** & He, C. Z. (2008). Adjusting nonresponse bias in subdomain levels using multiple response phases. (Vols. 50). (1), pp. 58-70. *Biometrical Journal*. [PMID: 1784938](#).
13. Spencer, L. & **Oleson, J. J.** (2008). Early listening and speaking skills predict later reading proficiency in pediatric cochlear implant users. (Vols. 29). (2), pp. 270-280. *Ear and Hearing*. [PMID: 18595191](#). [PMCID: PMC3210570](#).
14. Smith, B. J. & **Oleson, J. J.** (2008). Geostatistical hierarchical model for temporally integrated data measured with error. (Vols. 13). pp. 140-158. *Journal of Agricultural, Biological, and Environmental Statistics*.
15. Kim, H. & **Oleson, J. J.** (2008). A Bayesian dynamic spatio-temporal interaction model: An application to prostate cancer incidence. (Vols. 40). pp. 77-96. *Geographical Analysis*.
16. Gfeller, K. G., **Oleson, J. J.**, Knutson, J. F., Breheny, P., Driscoll, V. & Olszewski, C. (2008). Multivariate predictors of music perception and appraisal by adult cochlear implant users. (Vols. 19). (2), pp. 120-134. *Journal of the American Academy of Audiology*. [PMID: 18669146](#). [PMCID: PMC2677551](#).
17. **Oleson, J. J.**, Breheny, P. J., Pendergast, J. F., Ryan, S., Litchfield, R. E. & Myers-Geadelmann, J. (2008). Impact of travel distance on WISEWOMAN intervention attendance for a rural population. (Vols. 47). pp. 565-569. *Preventive Medicine*. [PMID: 18672000](#).
18. Driscoll, V., **Oleson, J. J.**, Jiang, D. & Gfeller, K. G. (2009). The effects of training on recognition of musical instruments presented through cochlear implant simulations. (Vols. 20). (1), pp. 71-82. *Journal of the American Academy of Audiology*. [PMID: 19927684](#). [PMCID: PMC2784659](#).

19. Gantz, B. J., Hansen, M. R., Turner, C. W., **Oleson, J. J.**, Reiss, L. A. & Parkinson, A. J. (2009). Hybrid 10 clinical trials: Preliminary results. (Vols. 14). (1), pp. 32-38. *Audiology and Neurotology*. [PMID: 19390173](#). [PMCID: PMC3010181](#).
20. Brown, C., Abbas, P., Etlar, C., O'Brien, S. & **Oleson, J.** (2010). Effects of long-term use of a cochlear implant on the electrically evoked compound action potential. (Vols. 21). (1), pp. 5-15. *Journal of the American Academy of Audiology*. [PMID: 20085195](#). [PMCID: PMC2881552](#).
21. **Oleson, J. J.** (2010). Bayesian credible intervals for binomial proportions in a single patient trial. (Vols. 19). (6), pp. 559-574. *Statistical Methods in Medical Research*. [PMID: 20181779](#). [PMCID: PMC3307549](#).
22. Woodson, E. A., Dempewolf, R. D., Gubbels, S. P., Porter, A. T., **Oleson, J. J.**, Hansen, M. R. & Gantz, B. J. (2010). Long-term hearing preservation following microsurgical excision of vestibular Schwannoma. (Vols. 31). (7), pp. 1144-1152. *Otology and Neurotology*. [PMID: 20679955](#). [PMCID: PMC3641783](#).
23. Gfeller, K., Jiang, D., **Oleson, J. J.**, Driscoll, V. & Knutson, J. F. (2010). Temporal stability of music perception and appraisal scores of adult cochlear implant recipients. (Vols. 21). (1), pp. 28-34. *Journal of the American Academy of Audiology*. [PMID: 20085197](#). [PMCID: PMC2844251](#).
24. Jiang, D. & **Oleson, J. J.** (2011). Simulation study of power and sample size for repeated measures with multinomial outcomes: An application to sound direction identification experiments (SDIE). (Vols. 20). (19), pp. 2451-2466. *Statistics in Medicine*. [DOI: 10.1002/sim.4302](#). [PMID: 21751232](#). [PMCID: PMC3339260](#).
25. Vosburgh, D. H., Boysen, D. A., **Oleson, J. J.** & Peters, T. M. (2011). Airborne nanoparticle concentrations in the manufacturing of polytetrafluorethylene (PTFE) apparel. (Vols. 8). (3), pp. 139-146. *Journal of Occupational and Environmental Health Hygiene*. [DOI: 10.1080/15459624.2011.554317](#). [PMID: 21347955](#). [PMCID: PMC4773197](#).
26. Holte, L., Walker, E., **Oleson, J. J.**, Spratford, M., Moeller, M. P., Roush, P. & Tomblin, J. B. (2012). Factors influencing follow-up to newborn hearing screening for infants who are hard-of-hearing. (Vols. 21). pp. 163-174. *American Journal of Audiology*. [PMID: PMC3435452](#). [PMCID: PMID: 22585937](#).
27. Gfeller, K., Turner, C., **Oleson, J. J.**, Kliethermes, S. A., Driscoll, V. & Gantz, B. J. (2012). Accuracy of cochlear implant recipients on speech reception in background music. (Vols. 121). pp. 782-791. *Annals of Otology, Rhinology & Laryngology*.
28. Stanier, C., Singh, A., Adamski, W., Baek, J., Caughey, M., Carmichael, G., Edgerton, E., Kenski, D., Koerber, M., **Oleson, J. J.**, Rohlf, T., Lee, S. R., Riemer, N., Shaw, S., Soutan, S. & Spak, S. (2012). Overview of the LADCO Winter Nitrate Study: Hourly ammonia, nitric acid and PM2.5 composition at an urban and rural site pair during PM2.5 episodes in the U.S. Great Lakes Region. (Vols. 12). pp. 11037-11056. *Atmospheric Chemistry and Physics Discussions*.
29. Gfeller, K., Jiang, D., **Oleson, J. J.**, Driscoll, V., Olszewski, C., Knutson, J. K., Turner, C. & Gantz, B. J. (2012). The effects of musical and linguistic components in recognition of real-world musical excerpts by cochlear implant recipients and normal hearing adults. (Vols. 49). (1), pp. 68-101. *Journal of Music Therapy*. [PMID: 22803258](#). [PMCID: PMC3400117](#).
30. McGregor, K., **Oleson, J. J.**, Bahnsen, A. & Duff, D. (2013). Children with developmental language impairment have vocabulary deficits characterized by limited breadth and depth. (Vols. 48). (3), pp. 307-319. *International Journal of Language & Communication Disorders*. [PMID: 23650887](#). [PMCID: PMC3648877](#).
31. Walker, E. A., Spratford, M., Moeller, M. P., **Oleson, J. J.**, Ou, H., Roush, P. & Jacobs, S. (2013). Predictors of hearing aid use time in children with mild-severe hearing loss. (Vols. 44). pp. 73-88. *Language, Speech, and Hearing Services in Schools*. [PMID: PMC3543484](#). [PMCID: PMID: 22869089](#).
32. **Oleson, J. J.** & Wikle, C. K. (2013). Predicting infectious disease outbreak risk via migratory waterfowl vectors. (Vols. 40). (3), pp. 656-673. *Journal of Applied Statistics*.
33. Smith, R. S., Driscoll, V. D., Gfeller, K., Kliethermes, S. A. & **Oleson, J. J.** (2013). Speech intonation and melodic contour recognition in children with cochlear implants and with normal hearing. (Vols. 34). (3), pp. 490-498. *Otology and Neurotology*. [PMID: PMC3600096](#). [PMCID: 23442568](#).

34. Porter, A. T. & **Oleson, J. J.** (2013). A path-specific SEIR model for use with general latent and infectious distributions. (Vols. 69). (1), pp. 101-108. *Biometrics*. [DOI: 10.1111/j.1541-0420.2012.01809.x](https://doi.org/10.1111/j.1541-0420.2012.01809.x). [PMID: 23323602](https://pubmed.ncbi.nlm.nih.gov/23323602/). [PMCID: PMC3622117](https://pubmed.ncbi.nlm.nih.gov/PMC3622117/).
35. **Oleson, J. J.**, Kumar, N. & Smith, B. J. (2013). Spatio-temporal modeling of irregularly spaced Aerosol Optical Depth data. (Vols. 20). (2), pp. 297-314. *Environmental and Ecological Statistics*. [DOI: 10.1007/s10651-012-0221-4](https://doi.org/10.1007/s10651-012-0221-4). [PMID: 24470786](https://pubmed.ncbi.nlm.nih.gov/24470786/). [PMCID: PMC3901316](https://pubmed.ncbi.nlm.nih.gov/PMC3901316/).
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201. Smith MJ, Roberts E, Charlton M, **Oleson JJ**. (2025). Incorporating small-area estimation into mediation analyses with areal datasets. *Spatial & Spatio-temporal Epidemiology*. DOI: [10.1016/j.sste.2025.100735](https://doi.org/10.1016/j.sste.2025.100735).
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211. Doucet, G.E., Kruse, J.A., Mertens, A., Goldsmith, C., Eden, N.M., **Oleson, J.**, McGregor,, K.K. (2025). Subcortical brain iron and its link to verbal memory in children with developmental language disorder. *Brain and Language*, 261, 105531, <https://doi.org/10.1016/j.bandl.2024.105531>.
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213. Trinh M, Tomblin JB, **Oleson JJ**, Hendrickson K. (2026). Real-time spoken word recognition in adults with and without developmental language disorder: The role of early language skills. *J Speech Lang Hear Res*. 2026 Mar 12;69(3):1073-1090. doi: [10.1044/2025_JSLHR-25-00464](https://doi.org/10.1044/2025_JSLHR-25-00464).
214. Petersen IT, Demko Z, Lee WC, **Oleson JJ**. (2026). Studying development of psychopathology using changing measures to account for heterotypic continuity. *JAACAP Open*. 4(1):111-123. DOI: [10.1016/j.jaacop.2025.10.008](https://doi.org/10.1016/j.jaacop.2025.10.008).
215. Leaman MC, Edmonds LA, **Oleson JJ**, Williams KN. (2026). Improving Language in Individual Conversation-Level Therapy: Group and Individual Results of ECoLoGiC Treatment for People With Moderate and Severe Aphasia. *Am J Speech Lang Pathol*. 2026 Mar 10;35(2):476-499. doi:[10.1044/2025_AJSLP-25-00113](https://doi.org/10.1044/2025_AJSLP-25-00113). PMID: 41557843.
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Abstracts

1. Dixon, B. S., VanBuren, J. M., **Oleson, J. J.**, Lockridge, R. L., Rodrigue, J. R., Paulsen, J. S. & Stokes, J. B. (2013). Effect of frequent nocturnal hemodialysis (NH) or renal transplantation (RT) on cognition. American Society of Nephrology - Kidney Week 2013.

2. Driscoll, V. D., Whipple, C. S., Gfeller, K. E. & **Oleson, J. J.** (2014). Perception of emotions and movements in music by children with cochlear implants. 13th International Conference on Cochlear Implants and Other Implantable Auditory Technologies.
3. Driscoll, V. D., Welhaven, A. E., Gfeller, K. E., **Oleson, J. J.** & Olszewski, C. P. (2014). Music perception of adolescents using the L24 hybrid cochlear implant. 2014 ACI Alliance.
4. Driscoll, V. D., Welhaven, A. E., Gfeller, K. E., **Oleson, J. J.** & Olszewski, C. P. (2014). Music perception of pediatric CI users with conventional long electrodes compared with those using hybrid L24. 2014 ACI Alliance.
5. Driscoll, V. D., Welhaven, A. E., **Oleson, J. J.** & Kirk, K. I. (2014). Children with cochlear implants and normal hearing peers: Effect of presentation format and signal-to-noise ratio on performance of speech recognition. 2014 ACI Alliance.

Non-peer-reviewed journal articles

1. Hope, D., Gries, D., Warren, P., Katti, M., Stuart, G., **Oleson, J.** & Kaye, J. (2005). How do humans restructure the biodiversity of the Sonoran desert?. (Vols. USDA Forest Service Proceedings RMRS-P-26). pp. 189-194. Connecting Mountain Islands and Desert Seas: Biodiversity and Management of the Madrean Archipelago II, May 11-15, Tucson, AZ.
2. **Oleson, J. J.** (ed). (2005). Iowa Health Fact Book. University of Iowa College of Public Health and Iowa Department of Public Health.
3. Machabee, L. G., **Oleson, J. J.** & Kinzig, A. P. (2005). Neighborhood park uses by Phoenix residents: An exploration of socio-demographic differences. (Vols. Philadelphia, PA). Proceedings of the George Wright Society Biennial Conference on Parks, Protected Areas and Cultural Sites.
4. **Oleson, J. J.** (ed). (2007). Iowa Health Fact Book. University of Iowa College of Public Health and Iowa Department of Public Health.
5. Gfeller, K., Buzzell, A., Driscoll, V., Kinnaird, B. & **Oleson, J. J.** (2009). The impact of voice range and instrumental background accompaniment on recognition of song lyrics. pp. 35-40. 7th Asia Pacific Symposium on Cochlear Implants and Related Sciences.
6. **Oleson, J. J.** (ed) (2009). Iowa Health Fact Book. University of Iowa College of Public Health and Iowa Department of Public Health.
7. **Oleson, J. J.** (Eds.) (2015). [2015 Iowa Health Fact Book](#).

Software

1. Seedorff, M. S., **Oleson, J. J.**, Brown, G. D., Cavanaugh, J. E. & McMurray, B. (2018). Bootstrapped Differences of Time Series (BDOTS). Available on CRAN.
2. Brown, G. D. & **Oleson, J. J.** (2018). ABSEIR. Available on Github and CRAN.

Other Publications

1. **Oleson, J. J.** (2007). In "Bayesian Statistical Modelling", 2nd edition (Book Review). pp. 2007. JASA Reviews, Mattson Publishing.

Research Interests/Current Projects

- Infectious Disease Modeling
- Statistical Methods for Speech and Hearing
- Spatial and Spatio-Temporal Statistics
- Bayesian Statistics
- Cancer Population Health

Grants and Contracts

Active (Funded)

1. VA IPA - Identification of demographic, clinical, and genetic profiles for suicidal behavior in US Veterans; US Department of Veterans Affairs, Iowa City Veterans Affairs Medical Center; Oleson, Jacob (Principal Investigator)
 - No Contract #
 - Mar 1, 2024 - Feb 28, 2025
 - Amount: \$14,740.00, 5% effort
 - Dr. Oleson will serve as a Research Associate in the execution of Dr. Willour's VACO funded Merit Review entitled "Identification of demographic, clinical, and genetic profiles for suicidal behavior in US Veterans". The duties and responsibilities of Dr. Oleson include but are not limited to: 1) Design, complete performance of, and evaluation of experimental procedures with full responsibility for efficient use of resources. 2) Obtain high-quality results in each individual study. 3) Provide training and local day-to-day oversight of assigned lab personnel, including students, postdoctoral individuals, and technicians. 4) Provide management of laboratory protocols.
2. Development of Small Area Interactive Risk Maps for Cancer Control Efforts; National Institutes of Health; Oleson, Jacob J (Principal Investigator)
 - U01 CA258400
 - Jun 15, 2022 - May 31, 2025
 - Amount: \$971,845.00, 15% effort
 - Aim 1: Develop a Bayesian hierarchical statistical model to create small area estimates of age-adjusted cancer rates per ZCTA for SEER regions over time. Aim 2: Develop and implement data visualization through interactive graphics that demonstrate how risk evolves in small areas over time. Aim 3: Determine feasibility of implementing the tools developed in Aims 1 and 2 within the SEER Program.
3. Internal Award: The Iowa Health Data Resource: Extending the Impact; University of Iowa Institute for Clinical and Translational Science; Oleson, Jacob (Co-Investigator), Carnahan, Ryan (Principal Investigator)
 - No Contract #
 - Jul 1, 2024 - Jun 30, 2025
 - 5% effort
4. Neural encoding and auditory processing of electrical stimulation in pediatric cochlear implant users; Ohio State University, National Institutes of Health; Oleson, Jacob J (Principal Investigator).
 - SPC-1000013879; GR137491; R01 D017846
 - Sep 1, 2024 - Mar 31, 2026
 - Direct Cost: \$45,340.00, 10% effort
5. IDPH Screening Data Management; Iowa Department of Public Health; Oleson, Jacob J (Principal Investigator)
 - 5883NB90
 - Aug 1, 1995 - Jun 29, 2026
 - Amount: \$8,831,046.00, 8% effort
 - Breast and Cervical Cancer Early Detection Program, Data and Entry Analysis; WISEWOMAN Enhanced Design, Data Entry and Analysis; Data Management subcontract. Subcontract studies design, data management, and analysis on this project.

6. Factors Associated with Reading Comprehension in Adolescents Who are Hard of Hearing; National Institutes of Health; Oleson, Jacob J (Co-Investigator), Walker, Elizabeth A (Principal Investigator)
 - R01 DC019081
 - Jul 20, 2021 - Jun 30, 2026
 - Amount: \$4,628,998.00, 10% effort
 - Recruit and retain 181 research subjects ages 12-18 years of age from Nebraska and neighboring states. Complete an audiological test battery that includes audiograms, hearing aid verification with probe microphone measures, aided speech recognition in noise, and measures of daily hearing aid use. Complete a reading, language and cognitive test battery to assess developmental growth in reading and predictors of reading outcomes. Participate in analyses collected for comparison of children with hearing loss and children with normal hearing. Participate in all funding agency reporting, manuscripts, and presentations.
7. Alteration of skin immune environment by sand fly saliva across progressive Leishmaniasis; National Institutes of Health; Oleson, Jacob (Co-Investigator), Petersen, Christine (Principal Investigator)
 - R01 AI171971
 - Jul 15, 2022 - Jun 30, 2026
 - Amount: \$3,875,544.00, 2% effort
8. Iowa Summer Institute for Research Education in Biostatistics and Data Science (ISIB); NIH; Oleson, Jacob J (Co-Investigator), Zamba, Gideon KD (Principal Investigator)
 - R25 HL161716
 - Mar 1, 2022 - Feb 28, 2027
 - Amount: \$1,280,640.00, 3% effort
 - We propose to enroll sixteen to eighteen students a year, including at least 50% of URM and at least 50% women, to build a pipeline with minority serving institutions, to build a longitudinal follow-up mechanism to track ISIB alumni into their graduate majors, and to measure an overall success through the percent of students who enroll in graduate programs in Biostatistics, Statistics, Data Science and in the STEM science data field.
9. Geospatial Modeling for Stroke Care; National Institutes of Health; Oleson, Jacob J (Co-Investigator), Brown, Grant D (Co-Principal), Mohr, Nicholas (Co-Principal), Ortega Sutierrez, Santiago (Co-Principal)
 - R01 NS127114
 - Apr 1, 2022 - Mar 31, 2027
 - Amount: \$2,533,419.00, 2% effort
10. Speech Perception and Auditory Abilities in Infants, Children, and Adults with Down Syndrome; NIH/NIDCD; Oleson, Jacob J (Co-Investigator), Leibold, L J (Principal Investigator)
 - GRT-00305 / R01 DC020229
 - Jun 1, 2022 - May 31, 2027
 - Amount: \$200,276.00, 5% effort
 - The results generated from this project are expected to provide new information about the factors that support communication outcomes for individuals with Down syndrome, and support the development of interventions to maximize listening, learning, and communication in noisy listening environments, such as classrooms.
11. Identifying Key Drivers of Cancer in Iowa; Iowa DHHS; Oleson, Jacob (Co-Investigator), Parker, Edith (Principal Investigator)
 - No project number
 - Jul 1, 2025 - Jun 30, 2027
 - Amount: \$925,529.00, 5% effort

12. Language Outcomes, Mechanisms, and Trajectories in Adults with and without Developmental Language Disorder; National Institutes of Health; Oleson, Jacob J (Co-Investigator), Hendrickson, Kristi (Principal Investigator)
 - R01 DC020143
 - Sep 1, 2022 - Aug 31, 2027
 - Amount: \$3,455,879.00, 10% effort
 - Our overall objective is to characterize the long-term outcomes of DLD in adulthood (Aim 1) and to identify specific mechanisms mediating these outcomes (Aim 2).
13. Iowa Cochlear Implant Center Project VIII; NIH/The National Institute on Deafness and Other Communication Disorders; Oleson, Jacob J. (Co-Investigator), Gantz, Bruce (Principal Investigator)
 - P50 DC000242
 - Sep 9, 1985 - Apr 30, 2028
 - Amount: \$74,505,186.00, 12% effort
 - Grant funds allow researchers to continue to identify the factors that determine why some individuals benefit to a greater extent from the implant than others. In addition, researchers work to develop and evaluate new signal processing for speech perception and music appreciation and to study the expansion of selection criteria including adults with more hearing and to track the benefit of early implantation in infants.
14. Iowa Cochlear Implant Clinical Research Center VIII; NIDCD; Oleson, Jacob (Co-Investigator), Gantz, Bruce (Principal Investigator)
 - P50 DC000242
 - Sep 9, 1985 - Apr 30, 2028
 - Amount: \$74,505,186.00, 11% effort
15. Dyadic - Ecological momentary assessments (EMA) Project; Sivantos GmbH on behalf of WS Audiology, a Sivantos affiliate; Oleson, Jacob (Co-Investigator), Wu, Yu-Hsiang (Principal Investigator)
 - 20240110
 - Nov 1, 2024 - Nov 30, 2028
 - Amount: \$241,764.00, 1% effort
16. Barriers and facilitators to over-the-counter hearing aids success: A patient journey approach; National Institutes of Health; Oleson, Jacob J (Co-Investigator), Wu, Yu-Hsiang (Principal Investigator)
 - R01 DC015997
 - May 1, 2018 - Apr 30, 2029
 - Amount: \$3,427,980.00, 5% effort
 - Age-related hearing loss is a substantial national problem due to its high prevalence and significant psychosocial consequences. Although hearing aids (HAs) are the primary intervention for the management of age-related hearing loss, only 15-30% of those who could benefit from HAs actually seek them out. The overall goal of this project is to characterize the differential effect of service-delivery models on provision of amplification so that accessible and affordable hearing healthcare can be facilitated. This project proposes to conduct research that would provide new knowledge about the outcome, value, and candidacy of OTC, hybrid, and AUD models and the effect of professional evaluation/selection services, patient-centered services, and device-centered services on outcome and value. The proposed study will acquire this knowledge through a two-site, double-blinded, randomized controlled field trial. The results obtained will inform patients and hearing healthcare providers about what can be achieved with different service-delivery models, and will help us develop guidelines to facilitate the selection of the most appropriate and cost-effective intervention for a particular patient. The significance

of the proposed project from the public health point of view is that it will facilitate not only accessible and affordable, but also quality, hearing healthcare.

17. Specifying the Verbal Working Memory Endophenotype for Developmental Language Disorder; Boys Town National Research Hospital, National Institutes of Health; Oleson, Jacob J (Principal Investigator)
 - GRT-00470; 2 R01 DC011742-11A1
 - Jul 1, 2024 - Jun 30, 2029
 - Amount: \$36,978.00, 10% effort
18. The Effectiveness of Cochlear Implants in Real-World Settings for Mild Cognitive Impairment and Dementia in Older Adults with Age-Related Hearing Loss; National Institutes of Health; Oleson, Jacob (Co-Investigator), Dunn-Johnson, Camille (Principal Investigator)
 - R01 AG085277
 - Sep 1, 2024 - Jun 30, 2029
 - Amount: \$4,322,395.00, 10% effort
 - This NIH R01 grant proposal will compare the effects of cochlear implants and hearing aids for ARHL-related cognitive impairment using real-world outcomes and a comprehensive neuropsychological battery. There is increasing evidence that age-related hearing loss (ARHL) is associated with cognitive decline and that interventions to improve hearing will prevent ARHL-related cognitive impairment. A unique feature of this study is that the primary outcome measure will be real-time data collection in subjects' natural environments (via smartphone app). This will enable measurement of hearing, cognitive and functional outcomes in real-world settings.
19. Sex Differences in Language Impairment, Disability, and Service Receipt; Father Flanagan's Boys Home, National Institutes of Health; Oleson, Jacob J (Principal Investigator)
 - GRT-00475; 1 R01 DC021428-01A1
 - Sep 1, 2024 - Aug 31, 2029
 - Amount: \$44,442.00, 5% effort
20. Brain structural and functional biomarkers of developmental language disorder and their relationship to executive dysfunction; Father Flanagan's Boys' Home, NIH; Oleson, Jacob (Co-Principal Investigator), Doucet, Gaelle (Principal Investigator)
 - R01 DC022081
 - Apr 10, 2025 - Mar 31, 2030
 - Amount: \$38,541.00, 3% effort
21. Contributions of Talker and Listener Factors to Speech Perception and Functional Hearing in Children; Boys Town National Research Hospital, NIH; Oleson, Jacob (Principal Investigator)
 - GRT-00499
 - May 1, 2025 - Apr 30, 2030
 - Amount: \$45,341.00, 6% effort

Completed

1. Central Area Phoenix- Long Term Ecological Research Program; Oleson, Jacob J. (Principal Investigator)
 - 2003
 - Amount: \$6,000.00
2. Central Area Phoenix- Long Term Ecological Research Program; Oleson, Jacob J. (Principal Investigator)
 - 2004

- Amount: \$6,000.00
3. Bayesian Modeling for Survey Nonresponse; College of Liberal Arts and Sciences, Arizona State University; Oleson, Jacob J. (Principal Investigator)
 - Jan 1, 2004 - Dec 31, 2004
 - Amount: \$6,000.00
 4. Smart Start; University of Iowa Centers of Disabilities and Development; Oleson, Jacob J. (Co-Investigator), Pendergast, Jane F. (Principal Investigator)
 - SSA-OPDR-03-01
 - Sep 30, 2004 - Aug 31, 2007
 - 30% effort
 - This is a study of an intervention designed to facilitate meeting the needs of adolescents and young adults as they transition out of the school system. The intent is to enable them to go on to post-secondary education or take on some level of employment.
 5. Developing the Next Generation of Biostatisticians: The Iowa Field of Dreams Conference 2009; American Statistical Association Biometrics Section; Oleson, Jacob J. (Principal Investigator)
 - 2008 - 2009
 - Amount: \$3,000.00
 - Conference grant will provide funding for 3-5 minority students to attend this conference.
 6. Research Training Program for Otolaryngology; NIH; Oleson, Jacob J. (Supporting), Gantz, Bruce (Principal Investigator)
 - Jul 1, 2008 - Jun 30, 2009
 - Amount: \$2,436,450.00
 7. Mortality and Air Quality Regulation in Two Indian Cities; National Institutes of Health; Oleson, Jacob J. (Statistician), Kumar, Naresh (Principal Investigator)
 - R21 ES014004
 - Apr 15, 2008 - Mar 31, 2011
 - Amount: \$289,486.00, 10% effort
 - Air quality intervention in developing countries is a new phenomenon. Delhi, the capital of India, has witnessed a series of air quality interventions in recent years, which provides a natural experimental setting to evaluate the health effects of change in air quality in response to these interventions. Two overarching goals of this proposal are (1) to evaluate the feasibility of satellite remote sensing to estimate daily air quality at different geographic scales, particularly for developing countries, which lack adequate coverage of air pollution monitoring, and (2) to assess the burden of mortality alleviated in response to these interventions in Delhi by differencing the cause-specific mortality with reference to air pollution in pre (2000-02) and post-regulation (2004-06) periods.
 8. Statistics in Microbiology, Infection Diseases & Bioinformatics; NIH/NIGMS; Oleson, Jacob J. (Supporting), Chaloner, Kathryn M. (Principal Investigator)
 - T32 GM077973
 - Aug 1, 2006 - Jan 31, 2012
 - Amount: \$683,870.00, 0% effort
 - The goal of this training program is to train biostatisticians to take a leadership role in developing new interdisciplinary scientific research. This will be achieved by providing rigorous training in the disciplines of statistics and microbiology, and also providing interdisciplinary training in bioinformatics. This training program will provide a structure that will strengthen

existing collaborations, and train a new generation of biostatisticians to advance biomedical and clinical research.

9. Cognitive Function in Dialysis Patients: Ancillary Study to the FHN Trial; NIH; Oleson, Jacob J. (Principal Investigator), Stokes, John (Principal Investigator)
 - R01 DK074715
 - Sep 15, 2007 - Jul 31, 2013
 - Amount: \$2,187,588.00, 10% effort
10. Applying Data Assimilation and Adjoint Sensitivity to Epidemiological and Policy Studies of Airborne Particulate Matter; US EPA; Oleson, Jacob J. (Co-Investigator), Stanier, Charles (Principal Investigator)
 - RD-83386501-2
 - Feb 1, 2009 - Jan 31, 2014
 - Amount: \$899,401.00, 6% effort
 - Source-resolved fine particulate matter (PM) concentrations are needed at high spatial and temporal resolutions for epidemiological studies aimed at identifying more- and less-harmful types of PM. Building on recent advances in air quality modeling, data assimilation, and satellite remote sensing, we aim to develop improved estimates of daily source-resolved PM_{2.5} at 36 km spatial resolution for major U.S. cities, and at 4 km for Chicago from 2001-2004.
11. Evoked Potentials and Music Perception: Effects of Hearing Loss and Training; NIH; Oleson, Jacob J. (Statistician), Abbas, Paul (Principal Investigator), Brown, Carolyn (Principal Investigator)
 - R01 DC12082
 - Aug 1, 2012 - Jul 31, 2016
 - Amount: \$320,875.00
 - This research will a) improve our understanding of how complex sounds such as music and speech in noise are processed within the auditory system of hearing aid and cochlear implant users, and b) evaluate interventions designed to improve their perception of these spectrally complex signals. We will do this by examining how (and whether) participation in music-based auditory training programs enhance perception and enjoyment of music and whether or not they generalize to perception of speech in noise. Results may lead to the development of more effective rehabilitation strategies for HA and CI users.
12. Iowa Summer Institute in Biostatistics (ISIB); National Institutes of Health; Oleson, Jacob J. (Principal Investigator), Zamba, Gideon (Principal Investigator)
 - T15 HL097622
 - Aug 20, 2009 - Aug 28, 2016
 - Amount: \$1,368,893.00, 4% effort
 - There is a nationwide shortage of biostatisticians and the shortage is having a negative impact on medical and public health research. The goal of this proposed program is to increase the number of minority undergraduates who enter graduate programs in Biostatistics or related areas. Instruction will be through case-based instruction of real biomedical research; computer laboratory training; projects; and clinical and translational research enrichment activities.
13. IDPH Cancer Maps; Iowa Department of Public Health; Oleson, Jacob J. (Principal Investigator)
 - Contract #5887CC13
 - Jun 30, 2005 - Jun 29, 2017
 - Amount: \$26,999.00, 3% effort
 - Cancer Maps: Create incidence rate, late-state incidence rate, mortality rate, and persistence maps for these forms of cancer: breast, colorectal, lung, prostate, cervical, non-Hodgkin lymphoma, and melanoma.

14. VA IPA Oleson MOU "Cochlear Implants"; DOD/Iowa City Veterans Affairs Research Foundation; Oleson, Jacob J, Hansen, Marlan (Principal Investigator)
- No Contract #
 - Apr 1, 2014 - Mar 31, 2019
 - Amount: \$5,069.00, 3% effort
 - CDC RFA-DD14-001, Surveillance and Research of Muscular Dystrophies and Neuromuscular Disorders, Component A: Core (Existing MD Surveillance and Research Programs).
15. Outcomes of School Aged Children Who are Hard of Hearing; NIH-NIDCD; Oleson, Jacob J. (Co-Investigator), Tomblin, Bruce (Principal Investigator)
- R01 DC009560
 - Aug 1, 2008 - Jul 31, 2019
 - Amount: \$13,805,362.00, 9% effort
 - This grant will help UI researchers, along with colleagues at Boys Town National Research Hospital in Nebraska and at the University of North Carolina, explore whether educational and audiological services and aids can improve outcomes for young children with mild and moderate hearing disorders.
16. Outcomes of School Age Children who are Hard of Hearing; NIH; Oleson, Jacob J. (Co-Investigator), Tomblin, Bruce (Principal Investigator)
- R01 DC009560
 - Aug 1, 2008 - Jul 31, 2019
 - Amount: \$13,805,362.00, 9% effort
 - The grant will help UI researchers, along with colleagues at Boys Town National Research Hospital in Nebraska and the University of North Carolina, explore whether educational and audiological services and aids can improve outcomes for young children with mild and moderate hearing disorders.
17. Iowa CBDPR: Birth Defects Study to Evaluate Pregnancy Exposures; Center for Disease Control; Oleson, Jacob J (Co-Investigator), Romitti, Paul (Principal Investigator)
- U01 DD001035
 - Sep 1, 2013 - Aug 31, 2019
 - Amount: \$3,470,000.00, 5% effort
18. Iowa Summer Institute for Research Education in Biostatistics (ISIREB); National Institutes of Health; Oleson, Jacob J (Co-Investigator), Zamba, Gideon KD (Principal Investigator)
- R25 HL131467
 - Feb 15, 2016 - Jan 31, 2020
 - Amount: \$743,305.00, 4% effort
 - This is a proposal to the National Institutes of Health (NIH), National Heart, Lung and Blood Institute (NHLBI), from the University of Iowa, in response to RFA-HL-16-017 for a Summer Institute for Research Education in Biostatistics. The ultimate vision of our proposed research education program is to increase the number of undergraduates who enter graduate programs in Biostatistics and to maintain a solid underrepresented minority pipeline into biostatistics graduate programs. The proposal is for the University of Iowa (UI) Department of Biostatistics to recruit a diverse group of 18 trainees each year, from 2016 to 2018, with focus on minority, underrepresented and disadvantaged students who wouldn't have otherwise been exposed to the field of biostatistics.
19. Mechanisms of Listening Effort in School Age Children who are Hard of Hearing; National Institutes of Health; Oleson, Jacob J (Co-Investigator), Walker, Elizabeth (Principal Investigator)
- R21 DC015832

- Jul 1, 2017 - Jun 30, 2020
 - Amount: \$457,500.00, 4% effort
20. Comp A-MD and Neuromuscular Disorder Surveillance and Research in Iowa; Center for Disease Control; Oleson, Jacob J (Co-Investigator), Romitti, Paul (Principal Investigator)
- U01 DD001119
 - Sep 1, 2014 - Aug 31, 2020
 - Amount: \$2,434,982.81, 5% effort
 - CDC RFA-DD14-001, Surveillance and Research of Muscular Dystrophies and Neuromuscular Disorders, Component A: Core (Existing MD Surveillance and Research Programs).
21. The Dynamics of Word Learning in Children with Developmental Language Impairment; Father Flanagan's Boys Home; Oleson, Jacob J (Principal Investigator)
- 96441-A
 - Jan 23, 2012 - Jun 30, 2022
 - Amount: \$2,046,976.00, 4% effort
 - The prime PI Karla McGregor was faculty at UI for years 1-5 of this project (NIH Word Learning & Memory project). This subaward is for years 6-10 of the project. The long-term goal of this research program is to develop a full explanation of the vocabulary problems associated with developmental language impairment (LI).
22. Neural Encoding and Auditory Perception in Cochlear Implant Users; Ohio State University; Oleson, Jacob (Principal Investigator)
- GR120016 / R01 DC016038
 - Jul 1, 2020 - Jun 30, 2022
 - Amount: \$21,698.00, 3% effort
 - The sponsor will be gathering human subjects data. The de-identified data will be sent for analysis to Dr. Oleson at the University of Iowa. His responsibilities will include biostatistical analysis and assistance with experimental design.
23. A Test of Children's English/Spanish Speech Perception in Noise or Speech Maskers; Boys Town National Research Hospital; Oleson, Jacob J (Principal Investigator)
- 96433-B
 - Aug 10, 2016 - Jul 31, 2022
 - Amount: \$132,537.00, 10% effort
 - The goal of this project is to develop, refine and evaluate a pediatric speech perception test for use with English-speaking, Spanish-speaking and bilingual children.
24. Memory and Word Learning; NIH; Oleson, Jacob J. (Co-Investigator), McGregor, Karla (Principal Investigator)
- R01 DC011742
 - Jan 23, 2012 - Dec 31, 2022
 - Amount: \$2,062,693.00, 8% effort
 - The long-term goal of this research program is to develop a full explanation of the vocabulary problems associated with developmental language impairment (LI). the current objective is to examine three memory processes that support word learning: encoding, consolidation, and retrieval.
25. SUSCS-Sonova US Corporate Services; Phonak/Sonova US Corporate Services; Oleson, Jacob J (Principal Investigator)
- J017300-C
 - Jan 1, 2020 - Dec 31, 2022

- Amount: \$38,500.00, 10% effort
 - Statistical consulting services will be provided by the University of Iowa Department of Biostatistics to aid the Phonak U.S. brand. The provided statistical services will be customized to the needs of the Sponsor. The format for the services will include, Study Design and Compilation; Reporting and Graphical Summarization; Statistical Analysis; and a Final Report and Results Write-up.
26. Iowa Summer Institute for Research Education in Biostatistics (ISIREB); NIH; Oleson, Jacob (Co-Investigator), Zamba, Gideon (Principal Investigator)
- R25 HL147231
 - Mar 1, 2019 - Feb 28, 2023
 - Amount: \$757,930.00, 4% effort
 - This is a proposal to the National Institutes of Health (NIH), National Heart, Lung and Blood Institute (NHLBI), from the University of Iowa, in response to RFA-HL-19-019 for an Iowa Summer Institute for Research Education in Biostatistics (ISIREB), Summer Programs 2019, 2020, & 2021.
27. Epidemic modeling framework for complex, multi-species disease processes; National Institutes of Health; Oleson, Jacob J (Principal Investigator)
- R01 TW010500
 - Jul 20, 2016 - Jun 30, 2023
 - Amount: \$2,407,906.00, 8% effort
 - Despite knowledge of vertical transmission for multiple infectious diseases for at least three-quarters of a century, we do not know how vertical transmission impacts the basic reproductive number (R_0) of classically vector-borne infections. In addition, multi-species diseases are likely to persist through both vertical and horizontal transmission, and not enough is known about their collective impact on R_0 . Vertical transmission of VL was previously discounted, but this EEID collaborative group has demonstrated that vertical transmission maintains endemic canine VL within US hunting hounds (6). We use this unique cohort to measure the infective capacity of vertical transmission in VL. With understanding gained from this study, we will be able to interpret how vertical transmission and horizontal transmission impact R_0 separately, and we will quantify their interactive effect on R_0 .
28. Ecological Momentary Assessment Research; Facebook, Inc.; Oleson, Jacob J (Co-Investigator), Wu, Yu-Hsiang (Principal Investigator)
- #ARIA
 - Dec 20, 2021 - Dec 19, 2023
 - Amount: \$617,902.00, 5% effort
29. Developing Evidence-Based Clinical Tools for Managing Mild Hearing Loss in Children; Boys Town National Research Hospital; Oleson, Jacob j (Co-Investigator), Walker, Elizabeth A (Principal Investigator)
- 96469-A / R01 DC018330
 - Jul 20, 2020 - Jun 30, 2024
 - Amount: \$731,269.00, 5% effort
 - Recruit and retain a minimum of 70 research subjects ages 3-7 years of age from Iowa and neighboring states. Complete an audiological test battery that accounts for self-generated noise and ear canal acoustics and evaluate speech recognition in noise with two-talker maskers, reverberation, and distant, off-axis speech in children with mild bilateral hearing loss. Furthermore, complete clinical validation of a test batter for hearing aid candidacy and outcomes for children with mild bilateral hearing loss. Complete a language and cognitive test

battery to assess relative strengths/weaknesses in vocabulary and executive function skills. Participate in analyses collected for comparison of outcomes in children with mild bilateral hearing loss and children with normal hearing. Participate in all funding agency reporting, manuscripts and presentations.

30. Complex Listening Skills in School Age Hard of Hearing Children; Boystown National Research Hospital/NIH; Oleson, Jacob J (Co-Investigator), Walker, Elizabeth (Principal Investigator)
 - 96399-A / R01 DC013591
 - Aug 1, 2019 - Jul 31, 2024
 - Amount: \$1,440,698.00, 10% effort
 - The purpose of this research proposal is to: 1) Recruit and retain a minimum of 50 research subjects with hearing aids and a minimum of 50 normal hearing subjects ages 6-12 from Iowa and neighboring states. 2) Complete a psychophysical test battery evaluate temporal and spectral resolution skills of children with hearing loss. Furthermore, measures of perceptual weighting functions will further characterize the abilities of children to understand speech in noise. 3) Complete a language and cognitive test battery to assess relative strengths/weaknesses in vocabulary and executive function skills. 4) Participate in both the cross-sectional analyses and short-term longitudinal analyses and interpretation of longitudinal data collected for comparison of outcomes in children with hearing aids and children with normal hearing.
31. Iowa CDBRP: Component A BD-STEPS II Core; Center for Disease Control & Prevention; Oleson, Jacob J (Co-Investigator), Romitti, Paul (Principal Investigator)
 - U01 DD001223
 - Sep 1, 2018 - Aug 31, 2024
 - Amount: \$4,295,000.00, 5% effort
32. RH180023 Identifying the Sources of Degraded Speech-in-Noise Understanding and Individualized Therapeutic Options; DoD/Congressionally Directed Medical Research Program; Oleson, Jacob J (Co-Investigator), Choi, Inyong (Principal Investigator)
 - W81XWH1910637
 - Sep 1, 2019 - Aug 31, 2024
 - Amount: \$1,362,646.00, 3% effort
33. The Development of Real Time Spoken and Written Word Recognition: Cognitive Bases of Language and Educational Outcomes; National Institutes of Health; Oleson, Jacob J (Co-Investigator), McMurray, Robert M (Principal Investigator)
 - R01 DC008089
 - Jan 8, 2007 - Nov 30, 2024
 - Amount: \$7,293,244.00, 3% effort
34. Field Trial and Modeling of Transmission Blocking Vaccine to Prevent Lyme Disease; National Institutes of Health; Oleson, Jacob J (Co-Investigator), Petersen, Christine (Principal Investigator)
 - R01 AI139267
 - Jun 19, 2019 - May 31, 2025
 - Amount: \$3,646,646.00, 1% effort
 - Estimates from the CDC indicate that over 300,000 people are diagnosed each year with LD. The goal of this work is to demonstrate that a commercial-grade reservoir targeted TBV alters *B. burgdorferi* infection prevalence in questing ticks, in endemic areas (PA and MD) geographically distinct from the first field trial (NY). Findings from experiments proposed in this study will advance translational knowledge of *B. burgdorferi* vaccinology and will provide

strong evidence regarding the possibility of TBV reducing the human health risk of exposure to Lyme disease across the United States.

35. Breast and Cervical Cancer Early Detection Program: Data and Entry Analysis; Iowa Department of Public Health, National Institutes of Health; Oleson, Jacob J. (Co-Investigator), Pendergast, Jane F. (Principal Investigator)

- Contract #5880NB90
- Aug 1, 1995 - Jun 30, 2025
- Amount: \$8,607,120.00, 8% effort

Presentations

Keynote/Plenary Address

- | | |
|----------|---|
| Mar 2007 | Oleson, J. J. Mapping of Cancers in Iowa that are Related to Excessive Alcohol and Tobacco Use. Presented at Midwest Undergraduate Mathematics Symposium, Simpson College, Indianola, Iowa. |
| Mar 2007 | Oleson, J. J. The Role of a Biostatistician: Boundless Research Opportunities. Presented at Midwest Undergraduate Mathematics Symposium, Simpson College, Indianola, Iowa. |

Invited Lectures

- | | |
|-------------|---|
| Jan 2020 | Oleson, J. J. Modern Statistical Methods in the Speech, Language, and Hearing Sciences. Phonak, Chicago, Illinois. |
| Jul 2021 | Oleson, J. J. Generalized Linear and Nonlinear Mixed Models. Boystown National Research Hospital, Omaha, Nebraska. |
| Jul 2021 | Oleson, J. J. Linear Mixed Models. Boystown National Research Hospital, Omaha, Nebraska. |
| Oct 2023 | Oleson, J.J. Developing cancer epidemiology maps to detect hot spots for small geographic areas. Kohn Colloquium, Department of Geographical and Sustainability Sciences, University of Iowa, Iowa City, Iowa. |
| Feb 1, 2024 | Oleson, J. J. Spatial Statistics and Disease Mapping with GIS and Public Health Data. Presented at Epidemiology Seminar, Department of Epidemiology, College of Public Health, University of Iowa, Iowa City, Iowa. |

Oral Presentations

- | | |
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| 2001 | Oleson, J. J., He, C. Z. & Sun, D. Bayesian Spatial Models for Wildlife Harvest with Stratification. Presented at Joint Statistical Meetings, Topic Contributed Session, Atlanta, Georgia. |
| 2001 | Oleson, J. J., He, C. Z. & Sun, D. Small Area Estimation for Pre-and Post-stratified Data. Presented at Annual Meeting, The Wildlife Society, Reno, Nevada. |
| 2002 | Oleson, J. J. & Cavanaugh, J. E. A Diagnostic for Assessing the Influence of Cases on the Prediction of Missing Data. Arizona Chapter of the American Statistical Association, Tempe, Arizona. |
| 2003 | Oleson, J. J., He, C. Z. & Sun, D. Bayesian Estimates of Small Areas Under Pre and Post-Stratification: An Application to the 1998 Missouri Turkey Hunting Survey. Presented at Department of Health Studies, University of Chicago, Chicago, Illinois. |

- 2003 Oleson, J. J., He, C. Z. & Sun, D. Bayesian Estimates of Small Areas Under Pre- and Post-Stratification. Presented at Joint Statistical Meetings, Topic Contributed Session, San Francisco, California.
- 2003 Oleson, J. J., He, C. Z. & Sun, D. Bayesian Estimates of Small Areas Under Pre-and Post-stratification. Sixth North American Meeting of New Researchers, Davis, California.
- 2004 Machabee, L. G., Kinzig, A. P. & Oleson, J. J. Parks and Neighborhood Quality of Life Study. Part 1: Phoenix Residents' Parks and Yards Landscaping Preferences. Presented at International Institute for Sustainability, Tempe, Arizona.
- Aug 2004 Oleson, J. J. Spatial Variation in Soil Nitrate and Carbon Levels in Metropolitan Phoenix and the Surrounding Deserts. Presented at Joint Statistical Meetings, Topic Contributed Session, Toronto, Canada.
- Oct 2004 Oleson, J. J. A Bayesian Approach to Modeling Survey Nonresponse. Presented at Department of Biostatistics, University of Minnesota, Minneapolis, Minnesota.
- 2005 Machabee, L. G., Kinzig, A. P. & Oleson, J. J. Neighborhood Park Uses by Phoenix Residents: An Exploration of Socio-demographic Differences. Presented at George Wright Society Biennial Conference on Parks, Protected Areas, Philadelphia, Pennsylvania.
- Feb 2005 Oleson, J. J. Bayesian Spatial Models for Wildlife Harvests with Stratification. Presented at Department of Geography, University of Iowa, Iowa City, Iowa.
- 2006 Smith, B. J. & Oleson, J. J. Geostatistical Hierarchical Model for Temporally Integrated Data Measured with Error. Presented at Colloquium, Department of Biostatistics, University of Iowa, Iowa City, Iowa.
- Apr 2006 Gfeller, K. E., Olszewski, C., Turner, C., Gantz, B. & Oleson, J. J. Music Perception with Cochlear Implants and Residual Hearing. Presented at 2nd International Conference on Innovative Approaches for Cochlear Implantation, Toulouse, France.
- Jun 2006 Gfeller, K., Knutson, J., Oleson, J. J., Olszewski, C. & Breheny, P. A Model of Music Perception and Enjoyment by CI Recipients. Presented at 9th International Conference on Cochlear Implants and Related Sciences, Vienna, Austria.
- Jun 2006 Smith, B. J. & Oleson, J. J. Geostatistical Hierarchical Model for Temporally Integrated Radon Measurements. Presented at 17th ASA Radiation and Health Conference, Pacific Grove, California.
- Jun 2006 Driscoll, V. D., Oleson, J. J., Rubenstein, J. & Gfeller, K. E. The Effect of Training on Timbre Recognition. Presented at 9th International Conference on Cochlear Implants and Related Sciences, Vienna, Austria.
- Aug 2006 Oleson, J. J. & Kim, H. A Bayesian Dynamic Spatio-Temporal Interaction Model. Presented at Joint Statistical Meetings, Contributed Session, Seattle, Washington.
- Aug 2006 Oleson, J. J. Joint Spatio-Temporal Modeling of Low Incidence Cancers Sharing Common Risk Factors. Presented at Colloquium, Department of Statistics and Actuarial Science, University of Iowa, Iowa City, Iowa.
- Oct 17, 2006 Gfeller, K., Oleson, J. J., Knutson, J., Driscoll, V., Turner, C. & Gantz, B. Environmental Factors and Individual Differences that Influence Music Perception and Enjoyment of CI Recipients. Presented at Music Perception with Cochlear Implant Workshops, University of Washington Bloedel Hearing Research Center, Seattle, Washington.

- Feb 2007 Oleson, J. J. Joint Spatio-Temporal Modeling of Low Incidence Cancers Sharing Common Risk Factors. Presented at Colloquium, Department of Statistics, Iowa State University, Ames, Iowa.
- Mar 13, 2007 Gfeller, K., Oleson, J. J., Knutson, J., Driscoll, V., Turner, C. & Gantz, B. Factors that Influence Music Perception and Enjoyment of CI Recipients. Department of Ear, Nose and Throat, Singapore General Hospital, Singapore.
- Mar 14, 2007 Gfeller, K., Oleson, J. J., Knutson, J., Driscoll, V., Turner, C. & Gantz, B. Research on Music Training for Adult CI Recipients. Department of Ear, Nose and Throat, Singapore General Hospital, Singapore.
- Mar 2008 Oleson, J. J., Kumar, N. & Smith, B. J. A Spatio-Temporal Model for Irregularly Spaced Aerosol Optical Depth Data. Presented at ENAR, Contributed Talk, Alexandria, Virginia.
- Aug 2009 Oleson, J. J. An Interactive Web-Based Introduction to Biostatistics for Health Practitioners. Presented at Joint Statistics Meetings, Washington, District of Columbia.
- Sep 2009 Oleson, J. J. Impact of Travel Distance on WiseWOMAN Intervention Attendance for a Rural Population. Presented at Heart Disease and Stroke Prevention Annual Grantee Meeting, CDC, Atlanta, Georgia.
- Jun 2010 Driscoll, V., Gfeller, K. & Oleson, J. J. A Comparison of Adult and Adolescent CI Users on Measures of Music and Speech Perception. Presented at 11th International Conference on Cochlear Implants and Other Implantable Auditory Technologies, Stockholm, Sweden.
- Jun 2010 Gfeller, K., Oleson, J. J., Turner, C., Driscoll, V., Kliethermes, S. & Gantz, B. Relations Between Speech Recognition in Background Noise, Babble, and Background Music. Presented at 11th International Conference on Cochlear Implants and Other Implantable Auditory Technologies, Stockholm, Sweden.
- Jun 2010 Driscoll, V., Oleson, J. J. & Gfeller, K. The Effects of Training on Timbre Recognition for CI Users. Presented at 11th International Conference on Cochlear Implants and Other Implantable Auditory Technologies, Stockholm, Sweden.
- Oct 2010 Gfeller, K., Driscoll, V., Oleson, J. J., Turner, C., Kliethermes, S. K. & Gantz, B. Acoustic + Electric Stimulation: Music and Other Spectrally Complex Listening Tasks. Presented at 3rd International Electric Acoustic Cochlear Implant Workshop, Iowa City, Iowa.
- Oct 2010 Baek, J., Stanier, C. O., Sousan, S., Oleson, J. J., Kumar, N. & Carmichael, G. R. Supporting Multi-Year Spatial-Temporal Analysis of Health Data with Air Pollution through the Chemical Transport Modeling. Presented at 29th Annual Conference, American Association for Aerosol Research, Portland, Oregon.
- Mar 2011 Oleson, J. J. & Wikle, C. K. Predicting Infectious Disease Outbreak Carried by Migratory Waterfowl. Presented at ENAR, Contributed Talk, Miami, Florida.
- Aug 2011 Oleson, J. J. & Wikle, C. K. Predicting Infectious Disease Outbreak Carried by Migratory Waterfowl. Presented at Joint Statistical Meetings, Topic Contributed Session, Miami, Florida.
- Oct 2011 Sousan, S., Baek, J., Spak, S., Kumar, N., Oleson, J. J., Carmichael, G. & Stanier, C. O. Optimizing Data Assimilation Parameters for Improved CMAQ PM2.5 Estimates over the United States to Inform Epidemiological Studies. Presented at 30th Annual Conference, American Association for Aerosol Research, Orlando, Florida.

- Oct 2011 Sousan, S., Baek, J., Spak, S., Kumar, N., Oleson, J. J., Carmichael, G. & Stanier, C. O. Optimizing Data Assimilation Parameters for Improved CMAQ PM2.5 Estimates over the United States to Inform Epidemiological Studies. Presented at Annual Meeting, American Institute of Chemical Engineers, Minneapolis, Minnesota.
- Feb 2012 Oleson, J. J. The Wide Wide World of Biostatistics. Presented at Mathematics Department Colloquium, Coe College, Cedar Rapids, Iowa.
- Mar 2012 Oleson, J. J. Modeling the Longitudinal Change in Speech Recognition Ability of Cochlear Implant Users. Presented at Midwest Statistics Research Colloquium, Madison, Wisconsin.
- Jun 3, 2013 Gfeller, K., Driscoll, V., Oleson, J. J. & Knutson, J. Psychological Factors Influencing Music Perception and Appraisal. Presented at International Federation of Oto-Rhino-Laryngological Societies, Seoul, Korea.
- Jun 4, 2013 Gfeller, K., Driscoll, V., Oleson, J. J. & Knutson, J. Music Perception Abilities in Relation to Speech and Psychosocial Outcomes. Presented at International Federation of Oto-Rhino-Laryngological Societies, Seoul, Korea.
- Sep 2013 Oleson, J. J. Modeling Speech Recognition Through Longitudinal Fixation Curves Resulting From Eye-Tracking Data. Presented at Frontiers in Methodological and Applied Statistics, University of Missouri Department of Statistics, Columbia, Missouri.
- Oct 2013 Oleson, J. J. The Science of Uncertainty. Presented at Mathematics Department Colloquium, Coe College, Cedar Rapids, Iowa.
- Oct 17, 2013 Oleson, J. J. & Porter, A. T. A Path-Specific Approach to Spatial SEIR Modeling. Presented at Colloquium, Department of Statistics and Actuarial Science, University of Iowa, Iowa City, Iowa.
- Feb 14, 2014 Oleson, J. J. & Porter, A. T. A Spatio-Temporal Model For Infectious Disease Spread Applied To A Mumps Epidemic. Presented at Colloquium, Department of Geographical and Sustainability Sciences, University of Iowa, Iowa City, Iowa.
- Apr 11, 2016 Oleson, J. Making Connections: The Value and Values of Public Health. Iowa Public Health Association, Des Moines, Iowa.
- Nov 2017 Oleson, J. J. Hierarchical Bayesian Models for the Spread of Infectious Diseases. Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa.
- Nov 2018 Oleson, J. J., McCreery, R. & Curran, M. Shortcourse: Evolution of Statistical Methods in the Speech, Language, and Hearing Sciences. Presented at American Speech and Hearing Association Annual Meeting, American Speech and Hearing Association, Boston, Massachusetts.
- Nov 2019 Oleson, J. J., McCreery, R. & Curran, M. Master Class Advanced Statistical Concepts for Speech, Language, and Hearing Scientists. Presented at American Speech and Hearing Association Annual Meeting, American Speech and Hearing Association, Orlando, Florida.
- Sep 2023 Oleson, J.J. Developing cancer epidemiology maps to detect hot spots for small geographic areas. Informatics Technology for Cancer Research annual meeting. Chicago, Illinois.

Posters

- 2001 Oleson, J. J., He, C. Z. & Sun, D. Estimating Hunting Success Rates using Spatial Correlations. Presented at The Wildlife Society Annual Meeting, Contributed, Reno, Nevada.
- 2004 Machabee, L. G., Kinzig, A. P. & Oleson, J. J. Investigating the Variations in Neighborhood Parks Use and Landscape Preferences: Preliminary Results of a Survey-Questionnaire. Presented at Sixth Annual Poster Symposium, Central Arizona – Phoenix Long-Term Ecological Research (CAP LTER), Tempe, Arizona.
- 2004 Oleson, J. J. & He, C. Z. Modeling Survey Nonresponse in Dichotomous Processes. Presented at Joint Statistics Meetings, Toronto, Canada.
- 2004 Hope, D., Zhu, W., Gries, C., Kaye, J., Oleson, J. J., Grimm, N., Jenerette, D. & Baker, L. Spatial Variation in Inorganic Soil Nitrogen Concentrations Across an Arid Urban Ecosystem. Presented at Sixth Annual Poster Symposium, Central Arizona – Phoenix Long-Term Ecological Research (CAP LTER).
- Aug 2004 Oleson, J. J. & He, C. Z. Bayesian Estimates for Survey Nonreponse. Presented at Joint Statistical Meetings, Invited Poster Session, Toronto, Canada.
- 2005 Machabee, L. G., Kinzig, A. P. & Oleson, J. J. Variations of Landscape Preferences Among Phoenix Residents: A Socio-demographic Analysis. Presented at 7th Annual Poster Symposium, Central Arizona – Phoenix Long-Term Ecological Research, Tempe, Arizona.
- Jun 2006 Smith, B. J. & Oleson, J. J. Geostatistical Hierarchical Model for Temporally Integrated Radon Measurements. Presented at 17th ASA Radiation and Health Conference, Pacific Grove, California.
- Apr 2008 Oleson, J. J., Lesh, S., Gfeller, K. & Knutson, J. The Effect of Advanced Bionic's HiRes 120 on Listening to Music. Presented at 10th International Conference on Cochlear Implants and Other Implantable Auditory Technologies, San Diego, California.

Seminars

- Feb 2025 Oleson, J.J. Analysis to investigate Iowa's cancer rates. Central College. Pella, Iowa.
- Mar 2025 Oleson, JJ. Developing cancer epidemiology maps to detect hot spots for small geographic regions. Presented at Association of American Cancer Institutes, Catchment Area Research and Data Science, Webinar.

Workshops

- Sep 28, 2016 Oleson, J. Understanding Health Data and Overview of the Iowa Health Fact Book. Presented at Iowa Health Fact Book: Tapping Iowa Health Data for News Reporting, Iowa City, Iowa.
- Feb 2024 Oleson, J.J. Introduction to Bayesian Statistics: Fundamentals of Bayesian Analyses and Performing Bayesian Data Analyses. Workshop at Boystown National Research Hospital, Omaha, Nebraska.

Other Presentations

- Oct 18, 2017 Oleson, J. J. Iowa Health Fact Book -- A Webinar. Presented at In-House Trainings, Iowa Department of Public Health, Des Moines, Iowa.
The Iowa Health Fact Book website has been upgraded to offer more information in a more user friendly manner. Data has been added, such as specific substance use treatment admissions and specific infectious diseases that are new to the site. Also added is state summary information and interactive graphics for each health item. Jacob Oleson, PhD, Associate Professor at U of Ia.'s College of Public Health, along with the IDPH Data Management Program, will host this webinar to demonstrate what information is available on the site and how to navigate the site to find the information of interest. This training is appropriate for state and local health department employees. State employees may watch the webinar in a group setting in the Director's Conference Room or at their desks by Zoom Webinar.

Service

Professional Service

Professional Organizations

- | | |
|----------------|---|
| 2002 - 2004 | International Association of Survey Statisticians, Member |
| 2002 - 2004 | International Biometric Society, Western North American Region, Member |
| 1999 - Present | American Statistical Association, Member |
| 1999 - Present | Biometrics Section, American Statistical Association, Member |
| 1999 - Present | Section of Statistics & The Environment, American Statistical Association, Member |
| 1999 - Present | Institute of Mathematical Statistics, Member |
| 2002 - Present | Section of Bayesian Statistical Science, American Statistical Association, Member |
| 2002 - Present | Section of Survey Research Methods, American Statistical Association, Member |
| 2004 - Present | International Biometric Society, Eastern North American Region, Member |
| 2007 - Present | Section of Teaching Statistics in the Health Sciences, American Statistical Association, Member |
| 2013 - Present | American Cochlear Implant Alliance, Member |

Journal Reviews/Referee Manuscripts

- | | |
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| 2003 | The Journal of Official Statistics, Referee Manuscripts |
| 2005 | Ecological Modeling, Referee Manuscripts |
| 2007 | Biometrics, Referee Manuscripts |
| 2007 | Statistics in Medicine, Referee Manuscripts |
| 2008 | Survey Methodology, Referee Manuscripts |
| 2009 | Annals of Epidemiology, Referee Manuscripts |
| 2009 | Environmental and Ecological Statistics, Referee Manuscripts |

2009 Journal of Speech, Language, and Hearing Research, Referee Manuscripts

2010 Journal of Statistical Planning and Inference, Referee Manuscripts

2010 Statistics and Its Interface, Referee Manuscripts

2011 Journal of Agricultural, Biological, and Environmental Statistics, Referee Manuscripts

2011 Substance Abuse Treatment, Prevention, and Policy, Referee Manuscripts

2012 Survey Methodology, Referee Manuscripts

2012 Journal of Agricultural, Biological, and Environmental Statistics, Referee Manuscripts

2012 Soil Sciences Society of America Journal, Referee Manuscripts

2013 Environmental and Ecological Statistics, Referee Manuscripts

2013 Journal of Applied Statistics, Referee Manuscripts

2013 Journal of Environmental Informatics, Referee Manuscripts

2013 Spatial Statistics, Referee Manuscripts

2013 Soil Sciences Society of America Journal, Referee Manuscripts

2014 Biostatistics, Referee Manuscripts

2014 Environmental and Ecological Statistics, Referee Manuscripts

2014 Statistics in Medicine, Referee Manuscripts

2015 Applied Spatial Analysis and Policy, Referee Manuscripts

2016 American Journal of Audiology, Referee Manuscripts

2016 Communications in Statistics - Case Studies and Data Analysis, Referee Manuscripts

2016 Spatial and Spatio-temporal Epidemiology, Referee Manuscripts

2017 Geographical Analysis, Referee Manuscripts

2017 Journal of the Royal Statistical Society - Series A, Referee Manuscripts

2017 Pediatrics, Referee Manuscripts

2017 American Journal of Tropical Medicine & Hygiene, Referee Manuscripts

2017 Spatial and Spatio-temporal Epidemiology, Referee Manuscripts

2018 American Journal of Tropical Medicine & Hygiene, Referee Manuscripts

2018 Bayesian Analysis, Referee Manuscripts

2018 Journal of Molecular and Cellular Cardiology, Referee Manuscripts

2018 Journal of Racial and Ethnic Health Disparities, Referee Manuscripts

2018 Journal of Speech, Language, and Hearing Research, Referee Manuscripts

2018 PLOS One, Referee Manuscripts

2018 The Journal of Official Statistics, Referee Manuscripts

2019 International Journal of Environmental Research and Public Health, Referee Manuscripts

2019 Journal of Academy of Nutrition and Dietetics, Referee Manuscripts

2019 Journal of Speech, Language, and Hearing Research, Referee Manuscripts
 2021 Ticks and Tick-Borne Diseases, Referee Manuscripts
 2021 Applied Energy, Referee Manuscripts
 2022 American Journal of Speech-Language Processing, Referee Manuscripts
 2022 Open Medicine, Referee Manuscripts
 2022 Journal of Speech, Language, and Hearing Research, Guest Editor
 2024 Computers in Biology and Medicine
 2024 Journal of Affective Disorders

Review Panels

2003 Grant proposal submissions, National Science Foundation, Reviewer
 2005 - 2006 Grant proposal submissions, National Science Foundation, Reviewer
 2006 Grant proposal submissions, National Security Agency, Reviewer
 2008 - 2009 Grant proposal submissions, National Science Foundation, Reviewer
 2009 Grant proposal submissions, National Security Agency, Reviewer

National/International Committees

2002 - 2004 Arizona Chapter, American Statistical Association, Member

State/Local Committees

2004 - Present Iowa Chapter, American Statistical Association, Member

Professional Consulting

2007 Report for National Academy of Sciences, Transportation Research Board- National Cooperative Highways Research Program, Consultant
 2007 - 2010 Journal of Speech, Language, and Hearing Research, Statistical Consultant

Other

2020 External Promotion Evaluation, Duke University, Member
 2020 External Promotion Evaluation, University of New Mexico, Member
 2020 External Promotion Evaluation, University of Louisville, Member
 2019 - Present Cochlear Implant International, Statistical Board
 2020 - Present Ear and Hearing, Editorial Board
 2025 - Present Scientific Council for Childhood Hearing, Oberkotter Foundation, Member

University, College, Department Service

University

2002 - 2004 Committee on Statistics, Arizona State University, Member

2002 - 2004	Department of Mathematics and Statistics Undergraduate Committee, Arizona State University, Member
2006 - 2007	Undergraduate Education Workgroup, College of Public Health, University of Iowa, Member
2016 - 2017	Sloan Program Director in Biostatistics, Member
2005 - Present	Iowa Cochlear Implant Center, Biostatistician
2007 - Present	Multi-Site "Outcomes of Children with Hearing Loss", Biostatistician
Oct 2019 - Present	Holden Comprehensive Cancer Center Cancer Research: Program 4: Cancer Epidemiology and Population Science, Affiliate Member

College

2003 - 2004	Computing Facilities Committee, Department of Mathematics and Statistics, Arizona State University, Member
2006	2006 Outstanding Graduate Student as Mentors Award, University of Iowa, Judge
2007	2007 Outstanding Graduate Student as Mentors Award, University of Iowa, Judge
2007	Alliance for Graduate Education and Professoriate Presentations, University of Iowa, Judge
2007	Internal CPH Review Committee to Evaluate CBH Department, Member
2007 - 2011	CPH Distance Learning and Continuing Education Committee, Co-Chair
2012	Internal CPH Review Committee to Evaluate OEH Department, Member
2018 - 2019	Collegiate Consulting Group for Promotion and Tenure, Chair
2019 - 2020	CPH Promotion and Tenure Committee, Member
2019 - 2020	Department of Epidemiology Faculty Search Committee, Member
Sep 2020 - Aug 2023	CPH Promotion and Tenure Committee, Member
2016 - Present	CPH Rural Health and Safety Opportunity Committee, Member
Sep 2022 - Present	CPH MPH Program Working Group Committee, Member

Department

2006	Awards Committee, College of Public Health, University of Iowa, Member
2005 - 2007	Biostatistics Computation and Informatics Committee, College of Public Health, University of Iowa, Member
2007	Review Committee, Department of Community and Behavioral Health, College of Public Health, University of Iowa, Member
2005 - 2008	Biostatistics Computing Committee, College of Public Health, University of Iowa, Member
2007 - 2008	Biostatistics Departmental Self-Study Committee, College of Public Health, University of Iowa, Member
2008 - 2009	Committee to Propose Department Mentoring System for Junior Faculty, College of Public Health, University of Iowa, Member

Aug - Dec 2009	M.S. Exam Committee, Chair
2007 - 2011	Distance Learning and Continuing Education Committee, College of Public Health, University of Iowa, Co-Chair
2012	Review Committee, Department of Occupational and Environmental health, Member
Aug - Dec 2012	M.S. Exam Committee, Chair
2004 - 2013	Biostatistics MS Examination Committee, Department of Biostatistics, College of Public Health, University of Iowa, Member
2007 - 2014	Biostatistics Social Event Committee, College of Public Health, University of Iowa, Member
2013 - 2014	Internal Funding Initiative Grant Review Committee, University of Iowa, Member
2014	Ph.D. Exam Committee, Member
2016 - 2017	Ph.D. Comprehensive Exam Steering Committee, Member
Jul 2021 - Jun 2022	Biostatistics Faculty Search Committee, Co-Chair
Sep 2022 - Aug 2023	Ph.D. Comprehensive Exam Steering Committee (Summer 2023), Member
2007 - Present	Biostatistics Admissions and Student Recruitment Committee (Chair 2019-2021), College of Public Health, University of Iowa, Member
2007 - Present	Biostatistics Diversity Committee, College of Public Health, University of Iowa, Member
2012 - Present	Admissions and Student Recruitment Committee, College of Public Health, University of Iowa, Chair
2015 - Present	Ph.D. Exam Committee, Department of Biostatistics, College of Public Health, University of Iowa, Chair
2016 - Present	Biostatistics Administrative Committee, DGS and Deputy DEO
2016 - Present	Ph.D. Curriculum Review Committee, Co-Chair
Sep 2017 - Present	Ph.D. Comprehensive Exam Steering Committee (Summer), Member
2019 - Present	Ph.D. Comprehensive Examination Review Committee, Co-Chair
Sep 2020 - Present	Promotion and Tenure Internal Peer Evaluation Committee #2, Member
Sep 2020 - Present	Promotion and Tenure Internal Peer Review Evaluation Committee #1, Chair
Sep 2021 - Present	Biostatistics AI Certificate Task Force, Member