


# Maria E. Kamenetsky, Ph.D., M.S.

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## Education

- 2022 **Ph.D., Epidemiology**, *University of Wisconsin-Madison*  
Department of Population Health Sciences  
*Minor*: Computer Sciences  
*Dissertation*: Regularized and Multi-Model Methods for Detecting Spatial and Spatio-Temporal Clusters with Applications in Epidemiology  
*Advisors*: Ronald Gangnon, Ph.D. (Population Health Sciences; Biostatistics & Medical Informatics)  
Jun Zhu, Ph.D. (Statistics)
- 2016 **M.S., Statistics**, *University of Wisconsin-Madison*  
Department of Statistics
- 2011 **B.A., Economics, Political Science, International Studies**  
Comprehensive Honors in Liberal Arts, *University of Wisconsin-Madison*.

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## Research Experience

- 2022–present **Postdoctoral Fellow**, *National Cancer Institute (NCI), National Institutes of Health (NIH)*  
Division of Cancer Epidemiology & Genetics (DCEG),  
Occupational & Environmental Epidemiology Branch (OEEB)/Biostatistics Branch (BB)  
Rockville, MD  
Mentors: Alexander Keil, Ph.D. & Paul Albert, Ph.D.
- Secured funding (Intramural Research Award (IRA)) from DCEG/NCI/NIH to fund the development of novel Bayesian methods in environmental mixtures.
  - Published and presented research spanning spatial statistics, environmental epidemiology, and causal inference.
  - Mentored summer students in the Biostatistics Branch.
- 2022–2024 **Honorary Fellow**, *University of Wisconsin-Madison*  
Nelson Institute for Environmental Studies,  
Environmental Observation & Informatics Program  
Madison, Wisconsin
- 2016–2022 **Statistical Consultant**, *University of Wisconsin-Madison*
- Consulted with over 139 faculty members, staff scientists, and graduate students in over 25 disciplines with the *CALS Statistical Consulting Lab* (Department of Biometry/College of Agricultural and Life Sciences).
  - Provided support in statistical methods, computer programming, data visualization, design of experiments, power analyses, and grant-writing.
  - Developed tutorials and provided statistical and programming support to medical students in the *Path of Distinction in Public Health Program* (School of Medicine and Public Health).
- 2020–2021 **Statistical Consultant**, *Wisconsin Department of Health Services*  
Madison, Wisconsin
- 2017–2018 **Statistical Consultant**, *Madison Water Utility*  
Madison, Wisconsin
- 2016 **Data Science Fellow**, *University of Chicago, Center for Data Science & Public Policy*  
Eric & Wendy Schmidt Data Science for Social Good Fellowship  
Chicago, Illinois

2015 **Graduate Research Assistant**, *University of Wisconsin-Madison*  
Center for Demography & Ecology  
Madison, Wisconsin

2011-2014 **Research Professional**, *University of Chicago, Accounting Research Center*  
University of Chicago Booth School of Business  
Chicago, Illinois

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## Honors & Awards

- 2025 Navigating Next Steps (NNS) Leadership and Career Program,  
National Cancer Institute
- 2023 StatsForward Leadership Fellowship,  
American Statistical Association
- 2021 Poster Winner: UW Womens Health And Health Equity Research Lecture & Symposium,  
Department of Obstetrics and Gynecology, University of Wisconsin-Madison
- 2021 RStudio::Global(2021) Diversity Scholar
- 2020 Robert F. and Jean E. Holtz Center for Science and Technology Studies Conference Grant,  
University of Wisconsin-Madison
- 2020 American Statistical Association (ASA) Wisconsin Chapter Student Virtual Travel Award
- 2020 Catherine Allen Outstanding Student Poster Award,  
Department of Population Health Sciences, University of Wisconsin-Madison
- 2019 Student Research Travel Grant,  
University of Wisconsin-Madison (\$1,200)
- 2016 Outstanding New Student Scholarship,  
Department of Population Health Sciences, University of Wisconsin-Madison (\$2,000)

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## Research Grants

### Active Support

- 2024-present **Intramural Research Award (IRA) Grant**, NIH/NCI/DCEG (\$25,000)  
*Title:* "The Role of Mixtures on Bladder Cancer Risk Across Space: An Examination Using Flexible Bayesian Quantile G-Computation"  
*Role:* Principal Investigator

### Past Support

- 2016 **Eric & Wendy Schmidt Data Science for Social Good Fellowship**, (\$16,000)  
University of Chicago Center for Data Science & Public Policy

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## Research Publications

### *Peer-Reviewed*

- 13 **Kamenetsky, M.**, Zhu, J., Gangnon, R.E. (2025) "Spatial and Spatio-Temporal Cluster Detection Using Stacking", *Spatial Statistics*, 70 (December), 10.1016/j.spasta.2025.100933.
- 12 **Kamenetsky, M.**, Keil, A.P. (2025) "(Re-)Match: Adjusting for Matching Factors in Case-Control Studies Can Be Unnecessary or Insufficient", *American Journal of Epidemiology*, 10.1093/aje/kwaf116, PMID: 40481657, *In press*.
- 11 **Kamenetsky, M.**, Welch, B., Bommarito, P., Buckley, J., O'Brien, K., White, A., McElrath, T., Cantonwine, D., Ferguson, K., Keil, A. (2025) "Partial Effects in Environmental Mixtures - Evidence and Guidance on Methods and Implications", *Environmental Health Perspectives* 133(5), 10.1289/EHP14942, PMID: 40145898.

- 10 Remigio, R.V., Buller, I.D., Bogel, M.S., **Kamenetsky, M.E.**, Ammons, S., Bell, J.E., Fisher, J.A., Freedman, N.D., Jones, R.R. (2025) "Geographic patterns in wildland fire exposures and county-level lung cancer mortality in the United States", *International Journal of Health Geographics*, 24(8), 10.1186/s12942-025-00394-x, PMID: 40217528.
- 9 **Kamenetsky, M.**, Bailey, E., Lowry, A., Gangnon, R., Stafeil, B., Hoppe, K. (2024) "The Role of Neighborhood in Individual and Disparity-Level Factors and Birth Weight in Dane County, Wisconsin" *Wisconsin Medical Journal* 123(6): 422-426, PMID: 9908488.
- 8 He, X., Tomasallo, C., Li, Z., Schultz, A., **Kamenetsky, M.**, Sjodin, A., Botelho, J., Jarrett, J., Meiman, J. (2022) "Fish consumption, awareness of fish advisories, and body burden of contaminants among the Milwaukee urban anglers: A biomonitoring study." *Journal of Toxicology and Environmental Health Sciences* 14(2): 20-35, 10.5897/JTEHS2022.0506
- 7 **Kamenetsky, M.**, Trentham-Dietz, A., Newcomb, P., Zhu, J., Gangnon, R.E.(2022) "A Flexible Method for Identifying Spatial Clusters of Breast Cancer Using Individual-Level Data." *Annals of Epidemiology* 73: 9-16, 10.1016/j.annepidem.2022.06.006, PMID: 35772615.
- 6 Gatti, R.C., Reich, P.B., Gamarra, J.G.P., Crowther, T., Hui, C., Morera, A., Bastin, J.F., De-Miguel, S., Nabuurs, G.J., Svenning, J.C., Serra-Diaz, J., Merow, C., Enquist, B., **Kamenetsky, M.** [and 135 others] (2022) "The Number of Tree Species on Earth." *Proceedings of the National Academy of Sciences* 119(6):e2115329119, 10.1073/pnas.2115329119, PMID: 35101981.
- 5 **Kamenetsky, M.**, Lee, J., Zhu, J., Gangnon, R. (2022) "Regularized Spatial and Spatio-Temporal Cluster Detection." *Spatial and Spatio-Temporal Epidemiology* 41(1877-5845): 100462, 10.1016/j.sste.2021.100462, PMID: 35691644.
- 4 Lee, J., **Kamenetsky, M.**, Zhu, J., Gangnon, R. (2021). "Clustered spatio-temporal varying coefficient regression model." *Statistics in Medicine*. 40(2): 465-480, 10.1002/sim.8785, PMID: 33103247.
- 3 **Kamenetsky, M.**, Chi, G., Wang, D., Zhu, J. (2019). "Spatial Regression Analysis of Poverty in R." *Spatial Demography* 7(2-3): 1-35, 10.1007/s40980-019-00048-0, PMID: 31737778.
- 2 Mallinson, D., **Kamenetsky, M.**, Hagen, E., Peppard, P. (2019). "Subjective sleep measurement: comparing sleep diary to questionnaire." *Nature and Science of Sleep* 11: 197-206, 10.2147/NSS.S217867, PMID: 31686932.
- 1 Skarlupka, J., **Kamenetsky, M.**, Jewell, K., Suen, G. (2019). "The ruminal bacterial community in lactating dairy cows has limited variation on a day-to-day basis." *Journal of Animal Science and Biotechnology* 10: 66, 10.1186/s40104-019-0375-0, PMID: 31452880

### ***Under Review***

- 1 Keil, A.P., **Kamenetsky, M.** "Bringing spatial confounding into the causal inferential fold."

### ***In Progress***

- 3 **Kamenetsky, M.**, Koutros, Spaur, M., S., Kim, S.D., Karagas, M., Johnson, A., Baris, D., Silverman, D.T., Keil, A.P. "Associations Between a Mixture of Trace Elements and Bladder Cancer Occurrence in the New England Bladder Cancer Case-Control Study: A Study of Possible Reverse Causation."
- 2 **Kamenetsky, M.**, Kim, S.D., Koutros, S., Karagas, M., Johnson, A., Silverman, D.T., Keil, A.P. "A Flexible Bayesian Quantile G-Computation Approach for Modeling Environmental Mixtures Over Space."
- 1 **Kamenetsky, M.**, Kim, S.D., Keil, A.P., Albert, P. "A Latent Spatial Modeling Approach to Environmental Mixtures."

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## Invited Talks

- Dec. 2025 Integrating Data Science and Spatial Epidemiology to Advance Environmental Cancer Research  
**Kamenetsky, M.**  
*Yale School of Public Health* *New Haven, CT*
- Aug. 2025 A Flexible Bayesian Quantile G-Computation Approach for Modeling Environmental Mixtures Over Space  
**Kamenetsky, M.**  
*Joint Statistical Meetings (JSM)* *Nashville, TN*
- Jul. 2025 Bayesian Quantile G-Computation: A Flexible Mixtures Approach to Spatial Analysis  
**Kamenetsky, M.**  
Geographical Analysis Working Group  
*National Cancer Institute (NCI)*  
*National Institutes of Health (NIH)* *Virtual*
- Dec. 2023 Spatial Methods in Cluster Detection and Environmental Mixtures  
**Kamenetsky, M.**  
Office of Biostatistics Research (OBR)  
*National Heart, Lung, & Blood Institute (NHLBI)*  
*National Institutes of Health (NIH)* *Rockville, MD*
- Oct. 2023 Spatial Methods in Cluster Detection and Environmental Mixtures  
**Kamenetsky, M.**  
SLAM (Survival, Longitudinal, and Multivariate Data) Working Group  
*Johns Hopkins University* *Baltimore, MD*
- Aug. 2023 Regularized and Multi-Model Methods for Spatial and Spatio-Temporal Cluster Detection  
**Kamenetsky, M.**  
*Joint Statistical Meetings (JSM)* *Toronto, Canada*
- Aug. 2023 Regularized Spatial and Spatio-Temporal Cluster Detection: Applications to Breast Cancer  
**Kamenetsky, M.**, Lee, J., Zhu, J., Gangnon, R.  
*International Conference on Econometrics and Statistics (EcoSta)* *Tokyo, Japan (Hybrid)*
- Jun. 2023 Partial Effects in Environmental Mixtures: Guidance on Methods, Assumptions, and Implications  
**Kamenetsky, M.**, Keil, A.  
Environmental Mixtures Working Group  
*National Institute of Environmental Health Sciences (NIEHS)*  
*National Institutes of Health (NIH)* *Virtual*
- Jan. 2023 Novel Spatial Methods in Cancer Surveillance and Environmental Mixtures  
**Kamenetsky, M.**  
Department of Population Health Sciences  
*University of Wisconsin-Madison* *Madison, WI*
- Jun. 2022 Quantifying wildfire smoke exposure in California school children  
**Kamenetsky, M.**, Velasquez, E., Kiang, M.  
*Society for Epidemiologic Research (SER) Annual Meeting* *Chicago, IL*
- Mar. 2022 Spatial and Spatio-Temporal Clustering  
**Kamenetsky, M.**

Toronto Data Workshop  
University of Toronto

Virtual

Dec. 2021 Spatial and Spatio-Temporal Cluster Detection: Methods and Applications  
**Kamenetsky, M.**

Keck School of Medicine - Environmental Health Division  
University of Southern California

Virtual

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## Contributed Oral Presentations

\* indicates presenter.

Jun. 2025 The Association Between Metal and Metalloids and Bladder Cancer Risk in the New England Bladder Cancer Study

**Kamenetsky, M.\***

*Society for Epidemiologic Research (SER) Annual Meeting*

Boston, MA

Aug. 2024 A Latent Spatial Model for Predicting a (Semi-)Metals Mixture in Private Wells

**Kamenetsky, M.\***, Kim, S.D., Albert, P., Keil, A.P.

*International Society for Environmental Epidemiology (ISEE)*

Santiago, Chile (Hybrid)

Aug. 2022 Cell-Wise Uncertainty Quantification of Spatial Clusters

**Kamenetsky, M.\***, Zhu, J., Gangnon, R.

*Joint Statistical Meeting (JSM)*

Washington, DC

Jun. 2022 Detecting Spatial and Spatio-Temporal Clusters of Disease Using Stacking

**Kamenetsky, M.\***, Zhu, J., Gangnon, R.

*Society for Epidemiologic Research (SER) Annual Meeting*

Chicago, IL

Mar. 2021 Identifying Spatial Clusters of Breast Cancer Risk: A Lasso Approach to the Wisconsin Women's Health Study

**Kamenetsky, M.\***, Trentham-Dietz, A., Newcomb, P., Zhu, J., Gangnon, R.

*ENAR Spring Meeting*

Virtual

Dec. 2020 Identification of Breast Cancer Spatial Structures Based on the Wisconsin Womens Health Study

**Kamenetsky, M.\***, Trentham-Dietz, A., Newcomb, P., Gangnon, R.

*Society for Epidemiologic Research (SER) Annual Meeting*

Virtual

Aug. 2020 Detecting Disease Clusters Across Space and Time Using Model Averaging

**Kamenetsky, M.\***, Gangnon, R.

*Joint Statistical Meetings (JSM)*

Virtual

Sep. 2019 Statistical Analysis of Madison Water Utility Main Breaks

**Kamenetsky, M.\***, McClure, S.\*

*Wisconsin Section of the American Water Works Association*

Madison, WI

Aug. 2016 Predicting Enforcement of Pollution and Hazardous Waste Violations in New York State

Potash, E., Jin, J., **Kamenetsky, M.\***, Magee, D., Van der Boor, P., Ghani, R.

*Data Science for Social Good Conference*

Chicago, IL

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## Poster Presentations

\* indicates presenter.

- Jun. 2025 Old Tools to Address Persistent Problems: Assessing Health Disparities and Differences with Attributable Fractions  
Keil, A.\*, **Kamenetsky, M.**, Spaur, M., Madrigal, J.M., Robinson, W.R.  
*Society for Epidemiologic Research* Boston, MA
- Jun. 2024 Partial Effects in Environmental Mixtures - Guidance on Methods, Assumptions, and Implications  
**Kamenetsky, M.**, Welch, B., Bommarito, P., Buckley, J., O'Brien, K., White, A., McElrath, T., Cantonwine, D., Ferguson, K., Keil, A.\*  
*Society for Epidemiologic Research (SER)* Portland, OR
- Jun. 2024 The Power of Mixtures  
Keil, A.\*, **Kamenetsky, M.**, Choi, G., Jones, R.R., Buckley, J.P.  
*Society for Epidemiologic Research (SER)* Portland, OR
- Mar. 2024 Urinary and Fecal Metal Concentrations Affect Adult Human Gut Microbiome Composition in a Sample of the Wisconsin Population  
Teffer, M.Y.\*, **Kamenetsky, M.**, Berres, M., Bradfield, C., Malecki, K., Ronnekleiv-Kelly, S.  
*Society of Toxicology Meeting* Salt Lake City, UT
- Feb. 2022 A Spatial Approach to Examining Individual and Disparity-Level Factors and Hypertensive Disorders of Pregnancy  
Bailey, E.\*, **Kamenetsky, M.**, Lowry, A., Gangnon, R., Hoppe, K.  
*Society of Maternal-Fetal Medicine Annual Pregnancy Meeting* Kissimmee, FL
- Feb. 2022 A Spatial Approach to Examining Individual and Disparity-Level Factors and Birth Outcomes  
Lowry, A.\*, **Kamenetsky, M.**, Bailey, E., Gangnon, R., Hoppe, K.  
*Society of Maternal-Fetal Medicine Annual Pregnancy Meeting* Kissimmee, FL
- Oct. 2021 A Spatial Approach to Examining Individual and Disparity-Level Factors and Hypertensive Disorders of Pregnancy  
Bailey, E.\*, **Kamenetsky, M.**, Lowry, A., Gangnon, R., Hoppe, K.  
*UW Womens Health And Health Equity Research Lecture & Symposium* Madison, WI
- Mar. 2020 Space and Space-Time Cluster Detection Using the LASSO  
**Kamenetsky, M.\***, Lee, J., Zhu, J., Gangnon, R.  
*UW-Madison Department of Population Health Sciences Annual Poster Session* Madison, WI
- Jan. 2020 Space and Space-Time Cluster Detection Using the LASSO  
**Kamenetsky, M.\***, Lee, J., Zhu, J., Gangnon, R.  
*UW-Madison Data Science Hub: Data Science Research Bazaar* Madison, WI
- Jun. 2019 Space and Space-Time Cluster Detection Using the LASSO  
**Kamenetsky, M.\***, Lee, J., Zhu, J., Gangnon, R.  
*Society for Epidemiologic Research (SER) Annual Meeting* Minneapolis, MN

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## Teaching Experience

- 2025 **Co-Instructor**, Division of Cancer Epidemiology & Genetics (DCEG)  
National Cancer Institute (NCI)  
"Causal Inference Workshop"  
○ Co-developed lessons and code as part of the Biostatistics Branch Workshop series.

- 2023 **Guest Lecturer,** *George Mason University*  
 "Introduction to Spatial Analysis for Public Health"  
 ○ Created materials and presented in *Biostatistics for Public Health II*.
- 2019-22 **Lecturer,** *University of Wisconsin-Madison*  
 "Spatial Statistics for Lattice Data" (STAT 679-III)  
 ○ Created lecture materials, homework assignments, final project for graduate-level course.  
 ○ Recorded lecture videos for hybrid course.  
 ○ Supported students as they applied spatial statistics methods to their program capstone projects.
- 2014 **Teaching Assistant,** *University of Wisconsin-Madison*  
 "Introductory Statistics" (STAT 301)  
 ○ Created weekly discussion materials.  
 ○ Graded assignments and provided students with feedback.
- 2017-2021 **Workshop Instructor,** Data and Software Carpentry (The Carpentries), *University of Wisconsin-Madison*  
 ○ Instructor and helper for 17 campus-wide workshops, including *R for Researchers*, *Reproducible Research*, and *Python and Unix Shell*.  
 ○ Co-developed the *Health Sciences Data Carpentry Workshop* to meet demand for data literacy among campus health sciences researchers.  
 ○ Developed course materials and capstone lesson, recorded videos for asynchronous learning modules for the *Geospatial Carpentry Workshop*.
- Mentoring**
- 2023-24 Ph.D. Candidate, *Molecular & Environmental Toxicology, University of Wisconsin-Madison*
- 2023 Summer Volunteer, *Biostatistics Branch, National Cancer Institute*
- 2020 MS Student, Environmental Observation & Informatics, *University of Wisconsin-Madison*
- 2020 Women in Scientific Education and Research, *University of Wisconsin-Madison*
- 2019, 2020 Population Health Sciences Peer Connections, *University of Wisconsin-Madison*

## Service

### Institutional

- 2024 DCEG Grants and Grantsmanship: Tips on Applying for Grant Funding  
 - Panelist
- 2023 OEEB Branch Concept Study Review, *National Cancer Institute*  
 - Reviewer
- 2022-2023 DCEG Fellows' Committee, *National Cancer Institute*  
 - Biostatistics Branch Representative
- 2022-2024 DCEG Fellows Writing & Accountability Group, *National Cancer Institute*  
 - Founder, Facilitator
- 2020-2022 Population Health Sciences Writing Group, *University of Wisconsin-Madison*  
 - Organizer
- 2017-2022 Population Health Sciences Student Organization, *University of Wisconsin-Madison*  
 - Social Media Chair (2020-21)  
 - Curriculum Committee Representative (Epidemiology) (2020-21; 2018-19)  
 - Admissions Committee Representative (2019-20)  
 - Social Chair (2017-18)

### Reviewer

*International Journal of Health Geographics*  
*Statistics in Medicine*  
*American Journal of Epidemiology*

*The R Journal*  
*Computational Statistics and Data Analysis*  
*Environmental Health Perspectives*  
*Annals of Epidemiology*  
*BMC Public Health*  
*Computational Statistics*  
*Cancers*  
*Journal of Computational and Graphical Statistics*  
*Biostatistics*

### Professional

- 2025 Session Chair, Joint Statistical Meetings (JSM) - Nashville
- 2023 Session Chair, Joint Statistical Meetings (JSM) - Toronto
- 2023-2024 Diversity & Inclusion Committee Liaison, *Society for Epidemiologic Research (SER)*
- 2021-2024 Communications Committee, *Society for Epidemiologic Research (SER)*
- 2021, 2022 Abstract Reviewer, *Society for Epidemiologic Research (SER)*
- 2021, 2025 Awards Committee, *American Statistical Association (ASA)*, *Statistics in Epidemiology Section*
- 2021 Session Chair, ENAR Spring Meeting

### Volunteering & Outreach

- 2021 R/Medicine 2021
  - *Teaching Assistant:* Mapping Spatial Health Data (Instructor: Marynia Kolak) (Aug. 2021)
- 2021 RStudio::Global(2021) Conference Workshop:
  - *Teaching Assistant:* Introduce Yourself Online (Instructor: Alison Hill) (Jan. 2021)
- 2021 UW-Madison Carpentries Instructor Development Meeting: "Teaching Debugging to Learners", *University of Wisconsin-Madison*
- 2021 Pathogen Dynamics Lab: "A Crash Course on Git & GitHub", *University of Cambridge*
- 2021 useR Boston Meetup: "Self-Assessment with learnR"
- 2019 Biostatistics Tutor, *University of Wisconsin-Madison*
- 2014 Statistics Tutorial Lab, *University of Wisconsin-Madison*

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## Software Development

- 2022 clustack, an R package for detecting and mapping spatial and spatio-temporal clusters using stacking (maintainer & developer: M. Kamenetsky)
- 2021 clusso, an R package for detecting and mapping spatial and spatio-temporal clusters using the LASSO (maintainer & developer: M. Kamenetsky)
- 2020 strm, an R package that fits a spatio-temporal regression model based on Chi & Zhu Spatial Regression Models for the Social Sciences (2020) (maintainer & developer: M. Kamenetsky). Available on CRAN.
- 2020 coefclust, an R package for detecting spatial clusters in regression coefficients (developer: J. Lee; maintainer: M. Kamenetsky)

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## Certification

- 2018 Certified Instructor - Data, Software, and Library Carpentry (The Carpentries)

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## Professional Society Membership

- 2022-present International Biometric Society (East North American Region)
- 2018-present Society for Epidemiologic Research
- 2016-present American Statistical Association



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## Additional Training

- 2025 Teaching Science in Higher Education  
National Institutes of Health
- 2023 Speaking with the Media  
National Cancer Institute
- 2023 Ethics in Research  
National Institutes of Health
- 2023 Mental Health First Aid Kit  
National Institutes of Health
- 2022 Grant-Writing Workshop  
National Institute on Aging, NIH
- 2022 Grants and Grantsmanship Workshop Series  
National Cancer Institute, NIH
- 2022 Scientists Teaching Science Workshop  
National Institutes of Health

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## Skills

- Statistical R (advanced), SAS (advanced), STATA (intermediate)
- Scripting Python (intermediate), Unix Shell (intermediate), C++ (beginner)
- Databases PostgreSQL (beginner), MySQL (beginner)
- Markup Markdown (advanced), L<sup>A</sup>T<sub>E</sub>X (intermediate)
- VersionControl Git (intermediate)
- OS Unix/Linux (Ubuntu, RedHat), MacOS, MS Windows
- Other SaTScan (advanced), QGIS (beginner), Inkscape (intermediate), GIMP (beginner)
- Languages Russian (fluent), Spanish (intermediate), English (native language)