Kelsey E. Grinde

CONTACT	Mathematics, Statistics, and Computer Science Macalester College Saint Paul, MN 55105	kgrinde@macalester.edu (651)-696-6976 kegrinde.github.io
EDUCATION	Ph.D. in Biostatistics University of Washington, Seattle, WA Dissertation: Statistical inference in admixed population Advisor: Sharon Browning	2019 ns
	B.A. in Mathematics , Concentration in Statistics St. Olaf College, Northfield, MN	2014
	Graduated $summa\ cum\ laude$ with Distinction in Statis Advisor: Paul Roback	stics
WORK EXPERIENCE	Assistant Professor Department of Mathematics, Statistics, & Computer Science Macalester College, Saint Paul, MN	2020-present
	Postdoctoral Teaching Fellow Department of Mathematics, Statistics, & Computer Science Macalester College, Saint Paul, MN	2019–2020
	Graduate Research Assistant Browning Statistical Genetics Lab University of Washington, Seattle, WA	2014–2015, 2016–2019
	Graduate Research Assistant Genetic Analysis Center University of Washington, Seattle, WA	2015–2016
	Undergraduate Research Assistant Summer Research Program in Statistical Genetics & Biostati Dordt College, Sioux Center, IA	2013, 2014 estics
	Undergraduate Research Fellow Center for Interdisciplinary Research St. Olaf College, Northfield, MN	2013–2014
TEACHING EXPERIENCE	Macalester College • STAT 253: Statistical Machine Learning Sections Taught: Fall 2024 (×3), Spring 2025, Fall 2025	2024–present 5 (\times 3)
	• STAT 494: Statistical Genetics Sections Taught: Fall 2022, Spring 2025	2022, 2025
	 MATH/STAT 455: Mathematical Statistics Sections Taught: Spring 2020, Spring 2021, Spring 2022 	2020–2023 2, Spring 2023
	• STAT 155: Introduction to Statistical Modeling Sections Taught: Fall 2019 (×2), Spring 2020, Fall 2020 Fall 2021 (×2), Spring 2022 (×2), Fall 2022, Spring 2020	

University of Washington

BIOST 311: Regression Methods in the Health Sciences, Co-Instructor 2018
BIOST 310: Biostatistics for the Health Sciences, Teaching Assistant 2017
BIOST 561: Computational Skills for Biostatistics, Guest Lecturer 2017
BIOST 550: Statistical Genetics I, Guest Lecturer 2017
BIOST 570: Regression Methods for Independent Data, Teaching Assistant 2016
First Year Statistical Theory Exam Review Sessions, Co-Instructor 2016

St. Olaf College

• STAT 322: Statistical Theory, Grader

2013

• Academic Support Center, Tutor & Academic Assistant (Intermediate Spanish I & II, Calculus I, Abstract Algebra I) 2011-2012

- Urban Schools and Communities Program, Participant 2012
 (Anderson Elementary School [1st Grade], Waite House Afterschool Programs [K–8th Grade])
- Department of Mathematics, Statistics, and Computer Science, Tutor (Calculus I & II, Multivariable Calculus)

PUBLICATIONS

- * denotes an undergraduate student
- + denotes joint first authors

Refereed Journal Articles

- 15. **Grinde, K.**, Browning, B., Reiner, A., Thornton, T., & Browning, S. "Adjusting for principal components can induce collider bias in genome-wide association studies." *PLOS Genetics* 20.12 (2024): e1011242. [link]
- Horimoto, A., Boyken, L., Blue, E., Grinde, K., Nafikov, R., Sohi, H., Nato, A., Bis, J., Brusco, L., Morelli, L., Ramirez, A., Dalmasso, M., Temple, S., Satizabal, C., Browning, S., Seshadri, S., Wijsman, E., & Thornton, T. "Admixture mapping implicates LIG4, MYO16, and FAM155A at 13q33.3 as ancestry-of-origin loci for Alzheimer disease in Hispanic and Latino populations." HGG Advances 4.3 (2023): 1000207. [link]
- Barragan, F.*, Mills, L., Raduski, A., Marcotte, E., Grinde, K., Spector, L., & Williams, A. "Genetic ancestry, differential gene expression, and survival in pediatric b-cell acute lymphoblastic leukemia." Cancer Medicine 12.4 (2023): 4761–4772. [link]
- 12. Zucko, D., Hayir, A.*, **Grinde, K.**, & Boris-Lawrie, K. "Circular RNA Profiles in Viremia and ART Suppression Predict Competing circRNA- miRNA-mRNA Networks Exclusive to HIV-1 Viremic Patients." *Viruses* 14.4 (2022): 683. [link]
- Lin, B.+, Grinde, K.+, Brody, J., Breeze, C., Raffield, L., Mychaleckyj, J., Thornton, T., Perry, J., Baier, L., de Las Fuentes, L., Guo, X., Heavner, B., Hanson, R., Hung, Y.-J., Qian, H., Hsiung, C., Hwang, S.-J., Irvin, M., Jain, D., Kelly, T., Kobes, S., Lange, L., Lash, J., Li, Y., Liu, X., Mi, X., Musani, X., Papanicolaou, G., Parsa, A., Reiner, A., Salimi, S., Sheu, W., Shuldiner, A., Taylor, K., Smith, A., Smith, J., Tin, A., Vaidya, D., Wallace, R., Yamamoto, K., Sakaue, S., Matsuda, K., Kamatani, Y., Momozawa, Y., Yanek, L., Young, B., Zhao, W., Okada, Y., Abecasis, G., Psaty, B., Arnett, D., Boerwinkle, E., Cai, J., Chen, I., Correa, A., Cupples, L.A., He, J., Kardia, S., Kooperberg, C., Mathias, R., Mitchell, B., Nickerson, D., Turner, S., Ramachandran, V., Rotter, J., Levy, D., Kramer, H., Köttgen, A., Rich, S., Lin, D.-Y., Browning, S., Franceschini, N., & TOPMed Kidney Working Group. "Whole genome sequence analyses of eGFR in 23,732 people representing multiple ancestries in the NHLBI Trans-Omics for

- Precision Medicine (TOPMed) consortium." *eBioMedicine* 63 (2021): 103157. [link]
- 10. Raffield, L., Lu, A., Szeto, M., Little, A., Grinde, K., Shaw, J., Auer, P., Cushman, M., Horvath, S., Irvin, M., Lange, E., Lange, L., Nickerson, D., Thornton, T., Wilson, J., Wheeler, M., NHLBI TOPMed Consortium, TOPMed Hematology & Hemostasis Working Group, Zakai, N., & Reiner, A. "Coagulation factor VIII: Relationship to cardiovascular disease risk and whole genome sequence and epigenome-wide analysis in African Americans." Journal of Thrombosis and Haemostasis 18.6 (2020): 1335–1347. [link]
- Shungin, D., Haworth, S., Divaris, K., Agler, C., Kamatani, Y., Lee, M.K., Grinde, K., Hindy, G., Alaraudanjoki, V., Pesonen, P., Temuer, A., Holtfreter, B., Sakaue, S., Hirata, J., Yu, Y.H., Ridker, P., Giulianini, F., Chasman, D., Magnusson, P., Sudo, T., Okada, Y., Voelker, U., Kocher, T., Anttonen, V., Laitala, M.L., Orho-Melander, M., Sofer, T., Shaffer, J., Vieira, A., Marazita, M., Kubo, M., Furuichi, Y., North, K., Offenbacher, S., Ingelsson, E., Franks, P., Timpson, N., Johansson, I. "Genome-wide analysis of dental caries and periodontal disease combining clinical and self-reported data." Nature Communications 10.1 (2019): 2773. [link]
- 8. Sofer, T., Zheng, X., Gogarten, S.M., Laurie, C.A., **Grinde, K.**, Shaffer, J.R., Shungin, D., O'Connell, J.R., Durazo-Arvizo, R.A., Raffield, L., Lange, L., Musani, S., Vasan, R.S., Cupples, L.A., Reiner, A.P., Laurie, C.C., Rice, K.M. "A fully-adjusted two-stage procedure for rank normalization in genetic association studies." *Genetic Epidemiology* 43.3 (2019): 263–275. [link]
- 7. **Grinde, K.**, Brown, L., Reiner, A., Thornton, T., Browning, S. "Genome-wide significance thresholds for admixture mapping studies." *American Journal of Human Genetics* 104 (2019): 454–465. [link]
- 6. **Grinde, K.**, Qi, Q., Thornton, T., Liu, S., Shadyab, A.H., Chan, K.H.K., Reiner, A.P., & Sofer, T. "Generalizing polygenic risk scores from Europeans to Hispanics/Latinos." *Genetic Epidemiology* 43.1 (2019): 50–62. [link]
- 5. **Grinde, K.**, Green, A., Arbet, J., O'Connell, M., Valcarcel, A., Westra, J., & Tintle, N. "Illustrating, quantifying and correcting for bias in post-hoc analysis of gene-based rare variant tests of association." Frontiers in Genetics 8.117 (2017): 1–11. [link]
- 4. Browning, S.R., Grinde, K., Plantinga, A., Gogarten, S.M., Stilp, A.M., Kaplan, R.C., Avilés-Santa, L., Browning, B.L., & Laurie, C.C. "Local ancestry inference in a large US-based Hispanic/Latino study: Hispanic Community Health Study/Study of Latinos (HCHS/SOL)." G3: Genes Genomes Genetics 6.6 (2016): 1525–1534. [link]
- 3. Greco, B., Hainline, A., Arbet, J., **Grinde, K.**, Benitez, A., & Tintle, N. "A general approach for combining diverse rare variant association tests provides improved robustness across a wider range of genetic architectures." *European Journal of Human Genetics* 24 (2016): 767–773. [link]
- 2. Green, A., Cook, K., **Grinde, K.**, Valcarcel, A., & Tintle, N. "A general method for combining different family-based rare-variant tests of association to improve power and robustness of a wide range of genetic architectures." *BioMed Central Proceedings* 10.7.23 (2016): 165–170. [link]
- Valcarcel, A., Grinde, K., Cook, K., Green, A., & Tintle, N. "A multistep approach to single nucleotide polymorphism—set analysis: An evaluation of power and type I error of gene-based tests of association after pathway-based association tests." BioMed Central Proceedings 10.7.16 (2016): 349–355. [link]

Refereed Abstracts

 Jensen-Otsu, E., Grinde, K., Baxi, A., Harms, M., Teng, B., Strate, L.L., & Ko, C.W. "Anesthesia professional-delivered sedation is associated with similar outcomes compared to nurse administered sedation in patients admitted with acute upper gastrointenstinal bleeding." Gastrointenstinal Endoscopy 87.6S (2018): AB418-AB419. [link]

Open Education Resources

- 3. **Grinde, K.**, Heggeseth, B., Johnson, A., & Myint, L. "STAT 253: Statistical Machine Learning Course Notes." Online course text (2025): [link].
- 2. **Grinde, K.** "Rethinking grading systems in introductory and advanced statistics courses." Consortium for the Advancement of Undergraduate Statistics Education Resources for JEDI-Informed Teaching of Statistics (2025): [link].
- 1. Heggeseth, B., Myint, L., & **Grinde**, **K.** "Stat 155 Notes." Online textbook (2021): [link].

Other Writing

- 2. **Grinde**, **K.**⁺, Theobold, A.⁺, & Myint, L⁺. "Beyond Achievement: Access, Identity, and Power in Alternative Grading." *Grading for Growth* (2024): [link].
- 1. **Grinde, K.** "Statistical Inference in Admixed Populations." Doctoral dissertation, University of Washington. 2019. [link].

SOFTWARE & APPLICATIONS

- 4. Chen, T.*+, McClure, K.*+, Ohr, S.*+, Huang, Z., & **Grinde, K.** "STEAM: Significance Threshold Estimation for Admixture Mapping." R package version 0.2.0 (2024): [link].
- 3. Hayir, A.*, & Grinde, K. "Interactive Circos Tool." R shiny application (2022): [link].
- 2. Huang, Z.*, & **Grinde**, **K.** "Significance Threshold Estimation for Admixture Mapping using Rcpp." R package (2020): [link].
- 1. **Grinde, K.** "STEAM: Significance Threshold Estimation for Admixture Mapping." R package (2019): [link].

RESEARCH TALKS

Presentations at International or National Venues

- 11. UPCOMING: Big Data Summer Institute Concluding Symposium, University of Michigan Department of Biostatistics, Ann Arbor, MI. 2025. (Invited, Keynote)
- Adjusting for principal components can induce spurious associations in genomewide association studies in admixed populations. International Genetic Epidemiology Society Annual Meeting. Virtual. 2021.
- 9. Deriving significance thresholds for genome-wide admixture mapping studies. International Genetic Epidemiology Society Annual Meeting. San Diego, CA. 2018.
- 8. Controlling for multiple testing in genome-wide admixture mapping studies. Western North American Region of the International Biometric Society Meeting. Edmonton, Canada. 2018.
- 7. Admixture mapping: controlling for false positives in the presence of population structure. American Society of Human Genetics Annual Meeting. Orlando, FL. 2017. (Poster)
- Generalizing genetic risk scores from Europeans to Hispanics/Latinos. International Genetic Epidemiology Society Annual Meeting. Cambridge, United Kingdom. 2017. (Poster)

- 5. Illustrating, quantifying, and correcting for bias in post-hoc analysis of gene-based rare variant tests of association. Joint Statistical Meetings. Seattle, WA. 2015. (Poster)
- 4. A hierarchical approach to SNP-set analysis: an evaluation of power and type I error of gene-based tests of association after pathway-based analysis. Genetic Analysis Workshop 19. Vienna, Austria. 2014.
- 3. Accounting for variability in paleoecological mixing models. National Conference for Undergraduate Research. Lexington, KY. 2014.
- 2. What now? Post-hoc approaches for gene-based, rare variant tests of association. American Society of Human Genetics Annual Meeting. Boston, MA. 2013. (Poster)
- 1. General approaches for combining multiple rare variant association tests provide improved power across a wider range of genetic architectures. American Society of Human Genetics Annual Meeting. Boston, MA. 2013. (Poster)

Presentations at Regional or Local Venues

- 24. Using PCA to infer and adjust for population structure: What can go wrong? Twin Cities Pop/EvoGen Group, University of Minnesota. Minneapolis, MN. 2024. (Invited)
- 23. Statistical methods for genetic studies in admixed populations. Department of Mathematics and Statistics, Carleton College. Northfield, MN. 2023. (Invited)
- 22. Statistical genetics in populations with mixed ancestry. Department of Mathematics, Creighton University. Omaha, NE. 2022. (Invited)
- 21. What's our work: statistical genetics. Department of Mathematics, Statistics, and Computer Science, Macalester College. Saint Paul, MN. 2021.
- 20. Genome-wide significance thresholds for admixture mapping studies. Interdisciplinary Biostatistics Training in Genetics and Genomics Journal Club, University of Minnesota. Virtual. 2021. (Invited)
- 19. Statistical genetics in populations with mixed ancestry. Mathematics Colloquium, Augsburg University. Virtual. 2020. (Invited)
- 18. Statistical methods for genome-wide admixture mapping studies. Division of Pediatric Epidemiology and Clinical Research, University of Minnesota. Virtual. 2020. (Invited)
- 17. Statistical genetics in populations with mixed ancestry. Department of Mathematics, Statistics, and Computer Science, Macalester College. Saint Paul, MN. 2019. (Invited)
- 16. Statistial inference in populations with mixed ancestry. Department of Mathematics, Statistics, and Computer Science, St. Olaf College. Northfield, MN. 2019. (Invited)
- 15. Adjusting for principal components can induce spurious associations in genomewide association studies. Genetic Analysis Center, University of Washington. Seattle, WA. 2019. (Invited)
- 14. Adjusting for population structure in genetic association studies: new insights and the potential pitfalls of using PCs. Population Genetics (PopGen) Lunch, University of Washington. Seattle, WA. 2019. (Invited)
- 13. Statistical inference in populations with mixed ancestry. Biostatistics Colloquium, University of Washington. Seattle, WA. 2018. (Invited)
- 12. Admixture mapping in TOPMed. NHLBI Trans-Omics for Precision Medicine (TOPMed) Kidney Working Group. Virtual. 2018.

- 11. Admixture mapping: controlling for false positives in the presence of population structure. Biostatistics Department Retreat, University of Washington. Seattle, WA. 2017. (Poster)
- 10. Issues in implementation of local ancestry inference on the X chromosome. Omics in Latinos Genetic Analysis Center Meeting. Seattle, WA. 2015.
- 9. Estimating genetic maps with large data sets. Biostatistics Department Retreat, University of Washington. Blaine, WA. 2015. (Poster)
- 8. Identifying and correcting for bias in post-hoc ranking strategies: an application to gene-based rare variant tests of association. Dordt College Summer Seminar. Sioux Center, IA. 2014.
- A hierarchical approach to SNP-set analysis: evaluation of power and type I error
 of gene-based tests of association after pathway-based analysis. Dordt College
 Summer Seminar. Sioux Center, IA. 2014.
- Identifying and correcting for bias in post-hoc ranking strategies: an application to gene-based rare variant tests of association. Department of Biostatistics, University of Michigan. Ann Arbor, MI. 2014.
- A hierarchical approach to SNP-set analysis: evaluation of power and type I error of gene-based tests of association after pathway-based analysis. Department of Biostatistics, University of Michigan. Ann Arbor, MI. 2014.
- 4. What now? Post-hoc approaches for gene-based, rare variant tests of association. Great Plains R-Users Group Conference. Sioux Center, IA. 2014. (Poster)
- 3. Accounting for variability in paleoecological mixing models. Natural Sciences and Mathematics Honors' Day Poster Session, St. Olaf College. Northfield, MN. 2014. (Poster)
- 2. Predicting donors at Red Cross blood drives. Mathematics, Statistics, and Computer Science Colloquium, St. Olaf College. Northfield, MN. 2014.
- Predicting donors at Red Cross blood drives. American Red Cross. Saint Paul, MN. 2014.

Student Presentations of Joint/Supervised Work

- 11. Ohr, S. Significance threshold estimation for admixture mapping (STEAM), an R package. Midstates Consortium Undergraduate Research Symposium. St. Louis, MO. 2024. (Poster)
- 10. Chen, T. Evaluating the power of admixture mapping: a literature review and simulation study. StatFest. New York, NY. 2024. (Poster)
- 9. McClure, K. and Ohr, S. Significance threshold estimation for admixture mapping (STEAM), an R package. Summer Research Showcase, Macalester College. Saint Paul, MN. 2024. (Poster)
- 8. Chen, T. Evaluating the power of admixture mapping: a literature review and simulation study. Summer Research Showcase, Macalester College. Saint Paul, MN. 2024. (Poster)
- 7. Barragan, S. Genetic ancestry, gene expression, and survival in children with B-ALL. Pediatric Research, Education, & Scholarship Symposium. Minneapolis, MN. 2022. (Poster)
- 6. Barragan, S. Gene expression differences by race and genetic ancestry in B-cell acute lymphoblastic leukemia. American Society of Human Genetics Annual Meeting. Virtual. 2021. (Poster)
- Barragan, S. Characterizing racial disparities in pediatric cancer: ancestry, gene expression, and survival disparities in B-cell acute lymphoblastic leukemia. Underrepresented Students in STEM Symposium. Minneapolis, MN. 2021. (Poster)

- 4. Barragan, S. Statistical methods for pediatric leukemia: gene expression & ancestry in B-cell acute lymphoblastic leukemia. Summer Research Showcase, Macalester College. Saint Paul, MN. 2021. (Poster)
- Huang, Z. Statistical methods for genetic association studies in populations with mixed ancestry. Midstates Consortium Undergraduate Research Symposium. Virtual. 2020.
- Huang, Z. Using Rcpp to speed up tool for controlling for multiple testing in genetic studies. Electronic Undergraduate Statistics Research Conference. Virtual. 2020
- 1. Huang, Z. Statistical methods for genetic association studies in populations with mixed ancestry. Summer Research Showcase, Macalester College. Virtual. 2020. (Poster)

TEACHING, OUTREACH, & MENTORING TALKS

Presentations at International or National Venues

- 4. Panel discussion on academic careers and job search. American Statistical Association Section on Statistics in Genomics and Genetics. Virtual. 2023. (Invited)
- 3. Rethinking (and then rethinking some more) grading systems in introductory and advanced statistics courses. Joint Statistical Meetings. Toronto, Canada. 2023. (Invited)
- 2. Time management, research strategy, and healthy habits for graduate students. American Statistical Association Section on Statistics in Genomics and Genetics. Virtual. 2021. (Invited)
- 1. Graduate programs in (bio)statistics. Electronic Undergraduate Statistics Research Conference. Virtual. 2020. (Invited)

Presentations at Regional or Local Venues

- 22. LATFXAdvanced Workshop. Macalester College. St. Paul, MN. 2024.
- 21. Teaching careers roundtable. BIOS 834: Pedagogical Methods for Biostatistics Courses, University of Michigan. Virtual. 2024. (Invited)
- 20. Career discussion. Gender Minorities in Math and Statistics (GeMMS), Carleton College. Northfield, MN. 2024. (Invited)
- 19. Alternative grading strategies. MSCS Inclusive Pedagogy Summit, Macalester College. St. Paul, MN. 2023. (Invited)
- 18. Faculty panel. Preparing Future Faculty Practicum, University of Minnesota. Virtual. 2023. (Invited)
- 17. Tips and tricks with R/RStudio. MSCS Student Advisory Board Skill-Building Sessions, Macalester College. St. Paul, MN. 2023. (Invited)
- Open Educational Resources and textbook affordability: Macalester environmental scan and survey results. Jan Serie Center for Scholarship and Teaching, Macalester College. St. Paul, MN. 2023.
- 15. Inclusivity in teaching panel. Radical MacACCESS, Macalester College. Virtual. 2021. (Invited)
- 14. Pathways into science outreach panel. Hutch United Outreach Committee & Wallin Education Partners Program, Fred Hutchinson Cancer Research Center. Virtual. 2021. (Invited)
- 13. Genetic testing: how does it work? (a statistician's perspective). Department of Mathematics, Statistics, and Computer Science, St. Olaf College. Northfield, MN. 2019. (Invited)
- 12. (Bio)statistics PhD programs: application tips and research opportunities. STAT 284: Biostatistics, St. Olaf College. Northfield, MN. 2019. (Invited)

- 11. Fellowships, scholarships, and grants. Biostatistics Student Seminar, University of Washington. Seattle, WA. 2018.
- 10. Admixture mapping: controlling for false positives in the presence of population structure. StatNorthwest. Seattle, WA. 2018. (Poster)
- 9. Graduate student panel. StatNorthwest. Seattle, WA. 2018. (Invited)
- 8. Travel grants and conference funding. Department of Biostatistics, University of Washington. Seattle, WA. 2017.
- What is Biostatistics? Forest Ridge School of the Sacred Heart Science Research Class. Bellevue, WA. 2017.
- NSF Graduate Research Fellowship Program information session. Department of Biostatistics, University of Washington. Seattle, WA. 2017.
- 5. What is Biostatistics? 7th and 8th Grade STEM PREP Project, University of Washington. Seattle, WA. 2017.
- 4. Applying for outside funding opportunities. Biostatistics Student Seminar, University of Washington. Seattle, WA. 2016.
- 3. Graduate and professional student panel. Healthcare Exploration for Youth Program, University of Washington. Seattle, WA. 2016. (Invited)
- 2. Graduate and professional student panel. Healthcare Exploration for Youth Program, University of Washington. Seattle, WA. 2015. (Invited)
- 1. What now? Post-hoc approaches for gene-based, rare variant tests of association. Inter-Disciplinary Explorations Across the Sciences. Sioux Center, IA. 2014. (Poster)

GRANTS Funded by National Organizations

• Safo, S. and **Grinde**, **K.** "Conference: STATGEN25."

2025

Amount: \$19,104

Funder: National Science Foundation (Program No. 21-541)

• Graduate Research Fellowship

2016 - 2019

Amount: \$138,000

Funder: National Science Foundation (Program No. 24-591)

• Statistical Genetics Training Grant

2015-2016

Amount: \$22,476

Funder: National Institutes of Health (T32 Training Grant)

Funded by Local Organizations

• Collaborative Summer Research Award

2024

Amount: \$13,461

Funder: Macalester College

• Article Processing Charge Grant Amount: \$1,466

Funder: Macalester College Dewitt Wallace Library Open Access Fund

(for Refereed Journal Article [12])

• Collaborative Summer Research Award

2020

Amount: \$5,500

Funder: Macalester College

• Travel Grant

2018

Amount: \$300

Funder: University of Washington Graduate and Professional Student Senate

• Conference Travel Award

2018

Amount: \$1,000

Funder: University of Washington (UW) Department of Biostatistics

• Travel Award 2017

Amount: \$500

Funder: UW Graduate School Fund for Excellence and Innovation

HONORS & AWARDS	 Professional Awards and Recognition Poster/Lightning Talk Award, 2nd Place International Genetic Epidemiology Society Annual Meeting 	2021
	(for International Research Talk [10])	
	• Top Cited Article Genetic Epidemiology Journal	2021
	(for Refereed Journal Article [6])	
	• Thomas R. Fleming Excellence in Biostatistics Award University of Washington Department of Biostatistics	2019
	• Gertrude M. Cox Scholarship American Statistical Association	2018
	• Dorothy L. Simpson Leadership Award Achievement Rewards for College Scientists Foundation, Seattle Chapter	2018
	• Excellence in Teaching Award University of Washington Department of Biostatistics	2018
	• Distinguished Oral Presentation Award Western North American Region of the International Biometric Society	2018
	(for International Research Talk [8])	
	• Achievement Rewards for College Scientists (ARCS) Fellowship ARCS Foundation, Seattle Chapter	-2017
	 Donovan J. Thompson Award University of Washington Department of Biostatistics 	2016
	Undergraduate Awards	
	Honorable Mention, Undergraduate Research Project Competition Consortium for Advancement of Undergraduate Statistics Education	2014
	 Honorable Mention, Graduate Research Fellowship Program National Science Foundation 	2014
	• Statistically Significant Award St. Olaf Department of Mathematics, Statistics, and Computer Science	2014
	• Buntrock Scholarship St. Olaf College	-2014
	• Service Leadership Scholarship St. Olaf College	-2014
	• Phi Beta Kappa National Honor Society	2013
	• Pi Mu Epsilon National Honor Society	2013
SERVICE	Professional Service	

• American Statistical Association Section on Statistics in Genomics and Genetics

- STATGEN 2026 Review Committee	$2025 \hbox{-present}$
- Co-Chair, STATGEN 2025 Local Organizing Committee	2024 – 2025
- Invited Panelist, ASA SSGG Webinar Series (see National Teaching/Outreach/Mentoring Talks $#$ 2 and 4)	2021 & 2023
 Contributor, ASA SSGG Quarterly Newsletter [link] ("Reflections and Tips from Recent Grads on the Job Search Experience") 	2021 ce")

	• Ad Hoc Peer Reviewer for Cell Genomics, GENETICS, Communications, PLOS Computational Biology, Scientified and SIAM Undergraduate Research Online	_
	Macalester College • Service to the College	
	- Opening Convocation Committee	2025–present
	 Co-Coordinator, Serie Center Reading Group (Book: Grading for Growth by D. Clark and R. Talbert) 	2025
	 Faculty Liaison to Admissions 	2022 – 2024
	- AAC&U Open Educational Resources Institute Tea	am 2022–2023
	Mid-Course Interview Scribe (*canceled due to COVID-19)	2020 *, 2021
	• Service to the Department of Mathematics, Statistics, a	nd Computer Science
	- Academic Planning Committee	2022–2023, 2024–present
	- MSCS Honors Seminar Coordinator	2021–2023, 2024–present
	- Statistics Tenure Track Search Committee	2022, 2025
	- Statistics Visiting/Postdoc Search Committee	$2020 – 2022,\ 2024 – 2025$
	- DataFest Judge	2025
	- DataFest Mentor	2021, 2022, 2023
	University of Washington Department of Biostatistics • Diversity Committee	2017–2019
	• Women in Biostatistics and Statistics, Leadership Team	
	Admissions Committee	2017–2018
	• Peer Mentoring Program, Founding Member & Mentor	2016–2018
	• Educational Policy and Teaching Evaluation Committee	
	Biostatistics Outreach Working Group	2016–2017
	• Biostatistics Outreach Working Group	2010
	St. Olaf College	2012 2014
	• President, Spanish Honor House	2013–2014
	Volunteer Teaching Assistant & Tutor, Northfield Public	
	• Liberal Arts Program in Seville, Orientation Leader	2013
	• Volunteer Teaching Assistant, Wayzata High School	2011
OTHER	Membership in Professional Societies	
PROFESSIONAL ACTIVITIES	• Caucus for Women in Statistics (CWS)	2018-present
ACTIVITIES	• International Genetic Epidemiology Society (IGES)	2016-present
	• American Society of Human Genetics (ASHG)	2013–present
	• American Statistical Association (ASA)	2013–present
	• Western North American Region (WNAR) of the Intern Biometric Society (IBS)	ational 2015–2019
	Working Groups	
	• Kidney Working Group Trans-Omics for Precision Medicine Whole Genome Seq	2018–2021 uencing Program

• Review Editor for Frontiers in Genetics

(Statistical Genetics and Methodology section)

2021-present

	• Dental Genetics Working Group Hispanic Community Health Study/Study of Latinos	2016	
ADVISING	Summer Research Supervisor	2024	
	• Tina Chen	2024	
	• Sydney Ohr	2024	
	• Katelyn McClure	2024	
	• Sofia Barragan (Funded by Macalester Mann-Hill Fellowship for Student-Faculty Research)	2021	
	• Zuofu Huang	2020	
	 Honors Thesis Advisor Tina Chen. Evaluating the power of admixture mapping. 	2024-2025	
	• Sofia Barragan. Statistical genetics for pediatric leukemia: characterizing racial disparities in pediatric acute lymphoblastic leukemia. (Funded by NIH Research Supplement to Promote Diversity in Health-Related Research)		
	• Zuofu Huang. Estimating significance thresholds and the number of generations since admixture in admixture mapping studies.	2020-2021	
	 Honors Thesis Committee Member Paige Tomer. An investigation into the causes of home field advanta in professional soccer. 	age 2024	
	• Erin Franke. Gentrification and crime in the Twin Cities: insights and challenges through a statistical lens.		
	• Zhaoheng Li. A comparison of stacking methods to estimate surviva using residual lifetime data from prevalent cohort studies.	al 2022	

LAST UPDATE June 11, 2025