Eric Yanchenko

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Education

North Carolina State University *2019-Present*
PhD Candidate in Statistics
Advisors: Dr. Brian Reich and Dr. Srijan Sengupta
NIH T32 Trainee

The Ohio State University *2019*
B.S. Mathematics, B.S. Physics. Statistics Minor
with Honors in the Arts and Sciences, Summa Cum Laude

Positions

North Carolina State University
Research Assistant, Dr. Brian Reich *2020-Present*
Research Assistant, Dr. Srijan Sengupta *2020-Present*
Duke Clinical Research Institute NHBLI Integrated Biostatistical Training Program for CVD research T32 training grant trainee *2021-2022*
Data-Enabled Science and Engineering of Atomic Structures Fellow *2020-2021*

The Ohio State University
Research Assistant, Department of Physics, Dr. Leonard Brillson *2015-2019*
Research Assistant, Department of Statistics, Dr. Christopher Hans *2018*

University of Michigan
Participant, Big Data Summer Institute, Dr. Jenna Wiens, Dr. Danai Koutra *2018*

Justus-Liebig University
Research Assistant, Institute of Applied Physics, Dr. Derck Schlettwein *2017*

Publications

Yanchenko, E. (2022+) A divide-and-conquer algorithm for core-periphery identification in large networks. *Stat.* pp. e475. https://doi.org/10.1002/sta4.475

Yanchenko, E. (2022+) Quantifying the presence/absence of meso-scale structures in networks, arXiv link: https://arxiv.org/abs/2203.16620

Yanchenko, E. and Sengupta, S. (2022+) Core-periphery structure in networks: a statistical exposition, arXiv link: https://arxiv.org/abs/2202.04455

Yanchenko, E., Bondell, H.D. and Reich, B.J., (2021+) The R2D2 prior for generalized linear mixed models, arXiv link: https://arxiv.org/abs/2111.10718

Yanchenko, E. and Sengupta, S., (2021+) A generalized hypothesis test for community structure and homophily in networks, arXiv link: https://arxiv.org/abs/2107.06093

Asel, T., **Yanchenko, E.**, Yang, X., Jiang, S., Krymowski, K., Wang, Y., Trout, A., McComb, D., Windl, W., Goldberger, J., Brillson, L., (2018) Identification of Ge Vacancies as Electronic Defects in Methyl- and Hydrogen-Terminated Germanane, *Appl. Phys. Lett.*, **113**, 061110.

Jiang, S., Krymowski, K., Asel, T., Arguilla, M., Cultrara, N., **Yanchenko, E.**, Yang, X., Brillson, L., Windl W., Goldberger, J.G., (2016) Tailoring the Electronic Structure of Covalently Functionalized Germanane via the Interplay of Ligand Strain and Electronegativity, *Chem. Mat.*, **28**, 8071-8077.

Presentations

Quantifying the presence/absence of meso-scale structures in networks, *North Carolina State University*, Raleigh, NC *2022*

A model-agnostic hypothesis test for community structure and homophily in networks (poster), *Southern Regional Council on Statistics*, Jekyll Island, GA *2021*

A model-agnostic hypothesis test for community structure and homophily in networks, *Joint Statistical Meeting*, Seattle, WA *2021*

Big Data Summer Institute Symposium and Poster Session, Ann Arbor, MI *2018*

Teaching

Guest lecture for ST758 (Advanced Statistical Computing, NCSU), *Networks, Community Structure and Combinatorial Optimization* *2021*

Instructor for statistics first-year PhD qualifying exam boot camp *2021*

Tutored one student at NCSU in ST705 (Linear Models) *2021*

Wrote and recorded tutorial for SEAS program on p-values / hypothesis testing *2021*

Tutored two students in High-School Algebra I *2020-2021*

Developed curriculum and tutored Japanese businessman in English *2020*

Awards

Travel Award, *ISBA World Meeting*, $300 (declined) *2022*

Clint Miller Award (best graduate student poster), *Southern Regional Council on Statistics Summer Research Conference* *2021*

NC State Datathon, 3rd Place *2021*

Paige Plagge Graduate Award for Citizenship, NCSU Statistics Department *2020*

> *Awarded for good citizenship to "a graduate student with an outstanding academic record, who in the judgment of the committee has especially enhanced the life of fellow students with encouragement, generosity and/or humor."*

Provost Doctoral Fellowship, NCSU Graduate School, $24,000 *2019-2020*

University Graduate Fellowship, NCSU Graduate School, $4,000 *2019-2020*

Phi Beta Kappa *2019*

Service

GRAD-Future Workshop Panelist, NCSU *2022*

Climate Committee, Department of Statistics, NCSU *2021-2022*

Graduate Student Mentor, Statistical Undergraduate Research Experience for *Southern Regional Council on Statistics* *2021*

Started an English Conversation Club in NCSU Dept. of Stat. where four to six international students and two domestic students met weekly to encourage department camaraderie while also teaching idioms and other American-English speaking conventions to the international students *2019-2021*