

# 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. Danaï 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.

<b>Presentations</b>	Quantifying the presence/absence of meso-scale structures in networks, <i>North Carolina State University</i> , Raleigh, NC 2022
	A model-agnostic hypothesis test for community structure and homophily in networks (poster), <i>Southern Regional Council on Statistics</i> , Jekyll Island, GA 2021
	A model-agnostic hypothesis test for community structure and homophily in networks, <i>Joint Statistical Meeting</i> , Seattle, WA 2021
	Big Data Summer Institute Symposium and Poster Session, Ann Arbor, MI 2018
<b>Teaching</b>	Guest lecture for ST758 (Advanced Statistical Computing, NCSU), <i>Networks, Community Structure and Combinatorial Optimization</i> 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 <i>p</i> -values / hypothesis testing 2021
	Tutored two students in High-School Algebra I 2020-2021
	Developed curriculum and tutored Japanese businessman in English 2020
<b>Awards</b>	Travel Award, <i>ISBA World Meeting</i> , \$300 (declined) 2022
	Clint Miller Award (best graduate student poster), <i>Southern Regional Council on Statistics Summer Research Conference</i> 2021
	NC State Datathon, 3rd Place 2021
	Paige Plagge Graduate Award for Citizenship, NCSU Statistics Department 2020
	<i>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."</i>
	Provost Doctoral Fellowship, NCSU Graduate School, \$24,000 2019-2020
	University Graduate Fellowship, NCSU Graduate School, \$4,000 2019-2020
	Phi Beta Kappa 2019
<b>Service</b>	NC State-Duke Summer Institute in Biostatistics Graduate Student Mentor 2022
	GRAD-Future Workshop Panelist, NCSU 2022
	Climate Committee, Department of Statistics, NCSU 2021-2022
	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