

# Farzad Noubary, PhD

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## EDUCATION

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### Harvard University

May 2011

- PhD in Biostatistics
- MA in Biostatistics
- Dissertation: *Statistical methods for evaluating novel diagnostic technologies*; Advisor: Michael Hughes

### Pennsylvania State University

May 2005

- BS in Mathematics with Honors

## WORK EXPERIENCE

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### Clinical Professor, *Department of Public Health and Health Sciences, Northeastern University* Associate Clinical Professor

Jun 2024-Present  
Aug 2018-Jun 2024

- Teach and mentor students at both the undergraduate and graduate levels. Develop new research collaborations with faculty working across the health sciences, including environmental epi, global health, mental health, and neuroscience. Service to my department, college, university, and profession.

#### Key Highlights:

- Developed and taught 6 unique courses at Northeastern, 2 at the undergraduate level (Principles of Epidemiology & Foundations of Biostatistics) and 4 at the graduate/doctoral level (Biostatistics in Public Health, Intermediate Epidemiology, Applied Regression Methods, and Causal Inference) including 1 online course
- Named co-investigator on 2 current and 5 completed external research grants (NIH, CDC, DHHS)

#### Key Leadership Roles:

##### *National*

- Invited NIH grant reviewer (*R34 and U01 awards*: July 2018, November 2018, February 2019, July 2019, December 2019, March 2020; *R01 and R34 awards*: October 2020, March 2021, July 2022, July 2023)
- Statistical editor of *Clinical Infectious Diseases* (Impact factor: 21)
- Research Section Lead, Northeastern University Chapter, Association of Schools and Programs of Public Health

##### *Northeastern University*

- Faculty director for the undergraduate honors capstone in health sciences
- Course coordinator for Foundations of Biostatistics and Principles of Epidemiology
- Epidemiology writer for the Population Health Doctoral Qualifying Exam Committee

### Adjunct Faculty, *Graduate School of Biomedical Sciences, Tufts University*

Aug 2018-Present

### Assistant Professor, *Graduate School of Biomedical Sciences, Tufts University*

Feb 2013-Aug 2018

### Senior Statistician, *Tufts Clinical and Translational Science Institute, Tufts Medical Center*

Feb 2013-Aug 2018

- Collaborated with researchers across diverse health-related disciplines. Provided methodological, analytic, and thought leadership on multi-million-dollar multi-institutional research contracts in both clinical and basic sciences. Developed and taught statistics and research methods courses across education levels, primarily at the graduate level. Mentored masters and PhD candidates in research study design, analysis, interpretation, and communication of results.

#### Key Highlights:

- Published 15+ peer-reviewed articles in high impact journals including: *Journal of Neuroscience, American Journal of Kidney Diseases, Circulation, etc*
- Presented original research in numerous invited and contributed seminar presentations
- Named co-investigator on 8 external research grants
- Received Distinguished Speaker Award from Harvard Medical School for over 5 years of both online and in-person instruction in clinical research to students across the world
- Advised 16 Master's and PhD students as member of thesis committees

#### Key Leadership Roles:

- Statistical editor of *Clinical Infectious Diseases*
- Invited NIH reviewer
- Served on the Tufts Clinical and Translational Science Graduate Program Advisory, Admissions, and Doctoral Qualifying Exam Committees

- Developed study designs and analysis plans for infectious disease research projects. Published findings in major international journals including *The New England Journal of Medicine*, *AIDS*, *Science Translational Medicine*, *Lancet Infectious Diseases*

## **TEACHING AND ADVISING AT NORTHEASTERN**

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Bouvé College of Health Sciences

### ***Courses***

- PHTH 2210 Foundations of Biostatistics: Fall 2018, Spring 2019, Spring 2021, Fall 2021, Fall 2022, Spring 2023, Spring 2024
- PHTH 4202 Epidemiology in Medicine and Public Health: Fall 2019 (2 sections), Fall 2020 (2), Spring 2021, Fall 2021 (2), Fall 2022 (2), Fall 2023 (2)
- HLTH 5450 Healthcare Research: Fall 2018
- PHTH 5210 Biostatistics in Public Health: Fall 2019, Fall 2020, Fall 2023 (online – new course development), Spring 2024
- PHTH 6202 Intermediate Epidemiology: Spring 2021, Spring 2022, Spring 2023, Spring 2024, Spring 2025
- PHTH 6210 Applied Regression Analysis: Spring 2019, Spring 2020, Spring 2022, Spring 2023
- PHTH 6800 Causal Inference in Public Health: Spring 2020, Spring 2021 (independent study), Spring 2022

### ***Supervision of Graduate Students***

- Quynh Vo (2022-2024) Dissertation: Antibiotic Use in US Nursing Homes. Role: Committee Member
- Darien Mather (2022-present) Dissertation: TBA. Role: Committee Member

## **OTHER TEACHING AND ADVISING EXPERIENCE**

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Tufts University Graduate School of Biomedical Sciences and Friedman School of Nutrition Science and Policy

### ***Courses***

- CTS 0527 Biostatistics I: Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017
- CTS 0533 Advanced Topic in Biostatistics: Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017
- CTS 0575 Advanced Epidemiology and Regression Methods: Spring 2014, Spring 2015, Spring 2016, Spring 2017, Spring 2018
- NUTR 309 Statistical Methods for Nutrition Research II: Spring 2016, Spring 2017, Spring 2018

### ***Supervision of Graduate Students***

- Katherine H. Michener, MD (2014) Thesis: Aortic Stiffness and its Relationship to Kidney Disease, Brain Structure, and Cognition. Role: Statistical Mentor
- Rajaa Nahra, MD (2014) Thesis: Associations Between Bone Density and Body Composition in Persons Living with HIV. Role: Statistical Mentor
- Jenica Upshaw, MD (2015) Thesis: A Multi-state Model to Predict Heart Failure Hospitalizations and All-cause Mortality in Outpatients with Heart Failure with Reduced Ejection Fraction. Role: Statistical Mentor
- Osama Amro, MD (2015) Thesis: Low Osmolar Diet and Adjusted Water Intake for Vasopressin Suppression in ADPKD: A Randomized Controlled Trial. Role: Statistical Mentor
- Sowmy Thuppal, MD, PhD (2015) Thesis: Treatment of Human Immunodeficiency Virus with Zidovudine and Tenofovir Regimen in India: A Comparative Effectiveness Study. Role: Statistical Mentor
- Jonathan Babyak, DVM (2016) Thesis: Hydroxyethyl Starch and the Risk of Acute Kidney Injury in Dogs. Role: Statistical Mentor
- Robert Blanton, MD (2016) Thesis: A Molecular Screen to Identify Novel Myocardial Therapeutic Targets for Human Heart Failure. Role: Statistical Mentor
- Deborah Linder, DVM (2016) Thesis: Association Between Pet Ownership, Animal Attachment, and Overweight Status in Children: An Exploratory Study. Role: Thesis Chair
- Nelya Melnitchouk, MD (2016) Thesis: Colorectal Cancer in Ukraine: Trends for the Last 14 Years. Role: Statistical Mentor
- Marzieh Mirhashemi, PhD (2016) Thesis: Transcriptome Analysis of *Cryptosporidium parvum*. Role: Thesis Chair
- Jinghui Dong, PhD (2017) Thesis: Timeliness of Treatment in Newly Diagnosed Breast Cancer Patients. Role: Statistical Mentor
- Min Han, PharmD (2017) Thesis: Comparative Effectiveness and Toxicity of Oral Antibiotics for Early Lyme Disease Associated with Erythema Migrans: A Systematic Review and Network Meta-Analysis. Role: Statistical Mentor
- Elizabeth Schoenfeld, MD (2017) Thesis: Physicians' Perspectives Regarding the Use of Shared Decision-Making in the Emergency Department. Role: Statistical Mentor
- Alexa Craig, MD (2018) Thesis: Delayed Rewarming for Neuroprotection in Infants Following Cardiopulmonary Bypass Surgery: A Pilot Study. Role: Statistical Mentor
- Kimberly Esham, MD (2018) Thesis: Assessment of Patient-Reported Health-Related Quality of Life among Hospitalized Adults with Sickle Cell Disease. Role: Statistical Mentor
- Teresa May, MD (2018) Thesis: Variation in Sedation and Neuromuscular Blockade Regimens on Outcome After Cardiac Arrest. Role: Statistical Mentor

Charité – Universitätsmedizin Berlin

- Introductory Statistics (short course): June 2017, June 2018

Harvard School of Public Health

- Principles and Practice of Clinical Research 5-Day Immersion Course: November 2013, 2014, 2015, 2017

University of Botswana School of Medicine & Botswana-Harvard Partnership

- Introductory Biostatistics: Spring 2012 (in person) and online course developed (32 videos, 45 minutes each)

## PAPERS, PEER-REVIEWED

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PubMed indexed bibliography: <https://www.ncbi.nlm.nih.gov/myncbi/farzad.noubary.1/bibliography/public/>

Google Scholar including citations: <https://scholar.google.com/citations?user=Y26nKIAAAAJ&hl=en&oi=a>

- Vo, Q. T., **Noubary, F.**, Dionne, B., Doron, S., Koethe, B., & Briesacher, B. A. (2025). Facility-level antibiotic prescribing rates and the use of antibiotics among nursing home residents. *American Journal of Infection Control*, 53(2), 254–260.
- Bottom-Tanzer, S., Corella, S., Meyer, J., Sommer, M., Bolaños, L., Murphy, T., Quiñones, S., Heiney, S., Shtrahman, M., Whalen, M., **Noubary, F.** & others. (2024). Traumatic brain injury disrupts state-dependent functional cortical connectivity in a mouse model. *Cerebral Cortex*, 34(2), bhae038.
- Luckett, R., Ramogola-Masire, D., Gompers, A., Moraka, N., Moyo, S., Sedabadi, L., Tawe, L., Kashamba, T., Gaborone, K., Mathoma, A., **Noubary, F.** & others. (2024). Triage of HPV positivity in a high HIV prevalence setting: a prospective cohort study comparing visual triage methods and HPV genotype restriction in Botswana. *International Journal of Gynecology & Obstetrics*, 165(2), 507–518.
- Mohareb, A. M., Kim, A. Y., Boyd, A., **Noubary, F.**, Kouamé, M. G., Anglaret, X., Coffie, P. A., Eholie, S. P., Freedberg, K. A., & Hyle, E. P. (2024). Virological, serological and clinical outcomes in chronic hepatitis B virus infection: development and validation of the HEPA-B simulation model. *BMJ Open*, 14(1), e073498.
- Vo, Q., Dionne, B., Doron, S., **Noubary, F.**, & Briesacher, B. (2023). 2281. Trends in Antibiotic Prescriptions in US Nursing Homes, 2018-2020. *Open Forum Infectious Diseases*, 10(Supplement\_2), ofad500-1903.
- Moyo, S., D. Ramogola-Masire, N. O. Moraka, L. Tawe, **Noubary, F.**, K. Motsumi, G. Manowe, B. Zuze, B. Radibe and F. T. Hungwe (2023). "Comparison of the AmpFire® Multiplex HPV Assay to the Xpert® HPV Assay for detection of human papillomavirus and cervical disease in women with human immunodeficiency virus: a pragmatic performance evaluation." *Infectious Agents and Cancer* 18(1): 1-7.
- Ryner, R. F., I. D. Derera, M. Armbruster, A. Kansara, M. E. Sommer, A. Pirone, **Noubary, F.**, M. Jacob and C. G. Dulla (2023). "Cortical Parvalbumin-Positive Interneuron Development and Function Are Altered in the APC Conditional Knockout Mouse Model of Infantile and Epileptic Spasms Syndrome." *Journal of Neuroscience* 43(8): 1422-1440.
- Schwamm, E., **Noubary, F.**, N. A. Rigotti and K. P. Reddy (2023). "Longitudinal transitions in initiation, cessation, and relapse of cigarette smoking and e-cigarette use among US youth and adults: Validation of a microsimulation model." *Plos one* 18(4): e0284426.
- Gero, K., **Noubary, F.**, Kawachi, I., Baum, C. F., Wallace, R. B., Briesacher, B. A., Kim, D. (2022). Associations of state-level and county-level hate crimes with individual-level cardiovascular risk factors in a prospective cohort study of middle-aged Americans: the National Longitudinal Survey of Youths 1979. *BMJ open*, 12(1), e054360.
- Craig, A. K., K. S. Deerwester, L. M. McAllister, **Noubary, F.**, and M. E. Hourihan (2021). "A Pilot Randomized Control Trial of Safety and Feasibility of a Delayed Rewarming Intervention for Infants Following Cardiopulmonary Bypass Surgery." *Pediatrics and Neonatal Medicine* 1(2): 1-6.
- Reddy, K. P., Schwamm, E., Kalkhoran, S., **Noubary, F.**, Walensky, R. P., & Rigotti, N. A. (2021). Respiratory Symptom Incidence among People Using Electronic Cigarettes, Combustible Tobacco, or Both. *Am J Respir Crit Care Med*, 204(2), 231-234. <https://doi.org/10.1164/rccm.202012-4441LE>
- Welch, L. C., Tomoaia-Cotisel, A., **Noubary, F.**, Chang, H., Mendel, P., Parajulee, A., Fenwood-Hughes, M., Etchegaray, J. M., Qureshi, N., Chandler, R., & Selker, H. P. (2020). Evaluation of initial progress to implement Common Metrics across the NIH Clinical and Translational Science Awards (CTSA) Consortium. *J Clin Transl Sci*, 5(1), e25. <https://doi.org/10.1017/cts.2020.517>
- Esham, K. S., Rodday, A. M., Smith, H. P., **Noubary, F.**, Weidner, R. A., Buchsbaum, R. J., & Parsons, S. K. (2020). Assessment of health-related quality of life among adults hospitalized with sickle cell disease vaso-occlusive crisis. *Blood Adv*, 4(1), 19-27. <https://doi.org/10.1182/bloodadvances.2019000128>
- Dong, J., Esham, K. S., Boehm, L., Karim, S. A., Lin, M., Mao, D., Wang, F., Fein, D., Wang, H., Studenmund, C., Weidner, R. A., **Noubary, F.**, Freund, K. M., Erban, J. K., & Parsons, S. K. (2020). Timeliness of Treatment Initiation in Newly Diagnosed Patients With Breast Cancer. *Clin Breast Cancer*, 20(1), e27-e35. <https://doi.org/10.1016/j.clbc.2019.06.009>
- Daudelin, D. H., Peterson, L. E., Welch, L. C., Chandler, R., Pandey, M., **Noubary, F.**, Lee, P. L., & Selker, H. P. (2020). Implementing Common Metrics across the NIH Clinical and Translational Science Awards (CTSA) consortium. *J Clin Transl*

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- Hanson, E., Armbruster, M., Lau, L. A., Sommer, M. E., Klaft, Z. J., Swanger, S. A., Traynelis, S. F., Moss, S. J., **Noubary, F.**, Chadchankar, J., & Dulla, C. G. (2019). Tonic Activation of GluN2C/GluN2D-Containing NMDA Receptors by Ambient Glutamate Facilitates Cortical Interneuron Maturation. *J Neurosci*, 39(19), 3611-3626. <https://doi.org/10.1523/jneurosci.1392-18.2019>
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- Amro, O. W., Paulus, J. K., **Noubary, F.**, & Perrone, R. D. (2016). Low-Osmolar Diet and Adjusted Water Intake for Vasopressin Reduction in Autosomal Dominant Polycystic Kidney Disease: A Pilot Randomized Controlled Trial. *Am J Kidney Dis*, 68(6), 882-891. <https://doi.org/10.1053/j.ajkd.2016.07.023>
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- cohort study. *BMC Neurol*, 14, 95. <https://doi.org/10.1186/1471-2377-14-95>
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- Shenoy, E. S., **Noubary, F.**, Kim, J., Rosenberg, E. S., Cotter, J. A., Lee, H., Walensky, R. P., & Hooper, D. C. (2014). Concordance of PCR and culture from nasal swabs for detection of methicillin-resistant *Staphylococcus aureus* in a setting of concurrent antistaphylococcal antibiotics. *J Clin Microbiol*, 52(4), 1235-1237. <https://doi.org/10.1128/jcm.02972-13>
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## SERVICE

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### Service to the Profession/Community/Public

National Institutes of Health – National Center for Complementary and Integrative Health

- Invited reviewer (*R34 and U01 awards*: July 2018, November 2018, February 2019, July 2019, December 2019, March 2020; *R01 and R34 awards*: October 2020, March 2021, July 2022, July 2023)

Statistical Editing

- *Clinical Infectious Diseases*. Impact factor: 21. Fall 2105-Present
- *Statistical Communications in Infectious Diseases*. Fall 2017-Present

Research Section Lead, Northeastern University Chapter, Association of Schools and Programs of Public Health. July 2023-Present.

### Northeastern University

Department of Health Sciences

- Undergraduate Health Sciences Program Committee
  - Director of Undergraduate Honors Capstone. Fall 2019 – Present
- Doctoral Program in Population Health
  - Epidemiology Writer Doctoral Qualifying Exam. Fall 2020 – Present
- Faculty Search NTT Global Health. Committee Member. Fall 2019 – Spring 2020
- Governance Committee. Fall 2021-Spring 2022

Bouvé College of Health Sciences

- Clinical and Experiential Education Committee. Fall 2021 – Spring 2022
- Bouvé Methods Group. Spring 2020 – Fall 2021
- Bouve Research Core Committee. Spring 2019

### Tufts University

Clinical and Translational Science Graduate Program

- Admissions Committee. Fall 2014-Spring 2018
- Advisory Committee. Fall 2014-Spring 2018
- Doctoral Qualifying Exam Committee. Fall 2014-Spring 2018

### Harvard University

Department of Biostatistics

- Diversity Committee. Fall 2006-Spring 2010

### Pennsylvania State University

Department of Statistics

- Climate Committee. Fall 2003-Spring 2004

University

- Commission on Racial and Ethnic Diversity. Fall 2003-Spring 2004

## FUNDING

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### Current funding

#### External

Awarded, "Evaluation of the school-based Healthy Relationships Project for primary prevention of child sexual abuse among children pre-K through 5th grade," Sponsored by Centers for Disease Control and Prevention. (September 30, 2021 - September 29, 2025), Organized Research - Basic. Effort: 10%, Total Proposed/Co-I Share: \$1,599,996.00/\$159,999.60, Awarded to Date/Co-I Share: \$799,998.00/\$79,999.80, Department: Health Sciences. PI: Beth Molnar.

Awarded, "Voltage imaging of astrocyte-neuron interactions," Sponsored by Tufts University, National Institutes of Health. (September 15, 2019 - June 30, 2024), Organized Research - Basic. Effort: 100%, Total Proposed/PI Share: \$184,236.00/\$184,236.00, Awarded to Date/PI Share: \$115,478.00/\$115,478.00, Department: Health Sciences. Subcontract PI: Farzad Noubary, PI: Chris Dulla (Tufts University).

#### Internal

Awarded, "TEAM Health: Technology-Enhanced Approaches to Mental Health Navigation in Families with Young Children," Sponsored by the Bridges Fellowship, Center for Design, College of Arts, Media, and Design, Northeastern University. (July 1, 2023-June 30, 2024), \$5,000. PI: Beth Molnar.

Awarded, "TEAM Health: Technology-Enhanced Approaches to Mental Health Navigation in Families with Young Children," Sponsored by "Community to Community: Policy Equity for All" Impact Engine, Northeastern University. (July 1, 2023-June 30, 2024), \$5,000. PI: Beth Molnar.

### Previously funded external grants

1R01ES028311 (Schaider/Brown: PI)

09/07/2018 – 06/30/2023

1.0 summer months

NIH

Assessment of pediatric immunotoxicity, public education, and capacity-building in communities impacted by PFAS-contaminated drinking water

Role: Co-I (subcontract)

1H79SM082196 (Moulin/Molnar: PI)

10/1/2019 – 9/30/2023

0.80 summer months

SAMHSA/ sub to BPHC

Evaluation of Boston FIRST SOC (Family Independence, Resilience, Support, and Treatment Systems of Care),

Role: Biostatistician (subcontract)

5 KL2 TR001063-03 (Selker)

09/26/13-4/30/18

1.20 calendar

NIH-NCATS

Tufts Clinical and Translational Science Institute Mentored Career Development

This institutional career development award will support junior investigators in the developing their careers as team scientists and clinical translational investigators.

Role: Statistical mentor

D2M2 (Selker)

11/01/15-4/30/2017

3.00 calendar

NIH/NCATS

Demonstrating and Disseminating Metric-based Management (d2m2) for CTSA

The overall objective of this project is to develop metrics for evaluating the performance of clinical trials that are conducted through the CTSA Consortium and through the Tufts CTSI Clinical Research Network.

Role: Statistician

R01 AI058736, NIH/NIAID

09/01/2009-08/31/2014

3.00 calendar

Freedberg (PI)

Optimizing HIV Care in Less Developed Countries

This study assesses the clinical impact, cost, and cost-effectiveness of alternative strategies for HIV management in South Africa, India, and Côte d'Ivoire.

Role: Biostatistician