

Education

- Ph.D. in Biostatistics**, *University of Michigan* 2021 – 2026
Dissertation: New Computational Methods of Cluster Analysis for Modern Biomedical Data
Co-Advisers: Dr. William Wen and Dr. Lili Zhao
- M.A. in Statistics**, *Columbia University* 2019 – 2020
- B.S.E. in Data Science**, *University of Michigan* 2014 – 2018

Publications

Under Review

- [1] **Ali Turfah**, Yuntian Wu, and Xiaoquan Wen. “Probabilistic Multiresolution Clustering: Illustrated in Genomic Data Analysis”. In: *Available at SSRN 7087586* (2026).

Peer Reviewed Publications

- [5] Sarah E Elzinga, Kai Guo, **Turfah, Ali**, Rosemary E Henn, Ian F Webber-Davis, John M Hayes, Crystal M Pacut, Samuel J Teener, Andrew D Carter, Diana M Rigan, et al. “Metabolic stress and age drive inflammation and cognitive decline in mice and humans”. In: *Alzheimer’s & Dementia* 21.3 (2025), e70060.
- [4] Sarah Elzinga, Mohamed Noureldein, Kai Guo, Dae-Gyu Jang, John Hayes, Rosemary Henn, Ian Webber-Davis, Faye Mendelson, Rachel Parent, Diana Rigan, Adam Allouch, **Ali Turfah**, Lili Zhao, Geoffrey Murphy, Junguk Hur, and Eva L. Feldman. “Long-term high-fat feeding: Connecting metabolism, cognitive impairment, and altered microglial morphology”. In: *Journal of the Neurological Sciences* 455 (2023).
- [3] **Ali Turfah**, Hao Liu, Latoya A Stewart, Tian Kang, and Chunhua Weng. “Extending PICO with Observation Normalization for Evidence Computing”. In: *Studies in health technology and informatics* 290 (2022), pp. 268–272.
- [2] Tian Kang, **Ali Turfah**, Jaehyun Kim, Adler Perotte, and Chunhua Weng. “A neuro-symbolic method for understanding free-text medical evidence”. In: *Journal of the American Medical Informatics Association* (2021).
- [1] J. Nicolas, B. Claessen, D. Cao, M. Chiarito, S. Sartori, H. Qiu, R. Goel, M. Nardin, A. Roumeliotis, B. Vogel, **A. Turfah**, et al. “A Sex Paradox in Clinical Outcomes Following Complex Percutaneous Coronary Intervention”. In: *International journal of cardiology* 329 (2021), pp. 67–73.

Conference Abstracts and Posters

- [19] A. Devara, J. Mendez, J. Smith, S. Kaur, **A. Turfah**, and A. Nicolai. *Service Learning Competencies and Professional Identity Formation in Medical Students: A Two-Wave Longitudinal Course Study*. Oral presentation presented at Learn Serve Lead: The AAMC Annual Meeting. Anaheim, CA, Nov. 2026.
- [18] M. Abdelhai, D. Bayachou, Y. Sannah, M. Kamal-Muili, T. Naas, J. Mendez, R. Charara, and **A. Turfah**. *Assessing Global Health Perspectives Among Healthcare Students Across Immigration*

- Generations*. Poster presented at the American Muslim Medical Student Association (AMMSA) Conference. Richardson, TX, Nov. 2025.
- [17] D. Bayachou, M. Abdelhai, Y. Sannah, M. Kamal-Muili, T. Naas, **A. Turfah**, J. Mendez, and R. Charara. *Linking Attitude Change to Motivation: The Impact of Experiential Learning on Medical Student Engagement in Global Health*. Poster presented at Wayne State University Medical Education Research and Innovation (MERI) Conference. Detroit, MI, Oct. 2025.
 - [16] R. Charara, J. Mendez, A. Illahi, and **A. Turfah**. *Combining Observation with Evidence*. Roundtable discussion presented at The Generalist in Medicine Conference. San Antonio, TX, Oct. 2025.
 - [15] M. Kamal-Muili, Y. Sannah, T. Naas, D. Bayachou, M. Abdelhai, J. Mendez, R. Charara, and **A. Turfah**. *Global Health in the Curriculum: Assessing Healthcare Students' Attitudes Toward Required Training*. Poster presented at Wayne State University Medical Education Research and Innovation (MERI) Conference. Detroit, MI, Oct. 2025.
 - [14] **Ali Turfah** and Xiaoquan Wen. "Multiresolution Clustering of Genomic Data". In: *Cold Spring Harbor Laboratory (Cold Spring Harbor, New York)* (2025).
 - [13] E. Burke, N. Thati, R. Charara, **A. Turfah**, J. Mendez, C. Sabinash, C. Fivecoat, and A. Bilbao. *Increase In Student Confidence Utilizing Community-Based Blood Pressure Screenings*. Society of General Internal Medicine Annual Meeting. Boston, MA, May 2024.
 - [12] T. Shaik, S. Khan, Z. Rizvi, M. Alabdrazzak, F. Rizvi, S. Yusuf, M. Tarar, J. Mendez, R. Charara, and **A. Turfah**. *The Impact of Cultural Education on Medical Student Confidence in Treating Muslim Patients: A Pilot Study*. American Muslim Medical Student Association National Conference. Rosemont, IL, Oct. 2024.
 - [11] **Ali Turfah** and Xiaoquan Wen. "Interpretable Clustering with the Distinguishability Criterion". In: *Joint Statistical Meetings (Portland, Oregon)* (2024).
 - [10] Sarah E Elzinga, Mohamed Noureldein, Kai Guo, Dae Gyu Jang, John M Hayes, Rosemary E Henn, Ian Webber-Davis, Faye E Mendelson, Rachel Parent, Diana M Rigan, et al. "Long term high-fat feeding induces cognitive impairment, alterations in microglial morphology, and spatial transcriptomic changes". In: *Alzheimer's & Dementia* 19 (2023), e077022.
 - [9] **Ali Turfah**, Xiaoquan Wen, and Lili Zhao. "Non-parametric Bayesian mixture model to study adverse events of COVID-19 vaccines". In: *International Chinese Statistical Association Applied Statistics Symposium (University of Michigan, Ann Arbor, MI)* (2023).
 - [8] Erin Miller, Rima Charara, **Ali Turfah**, and Jennifer Mendez. "Optimizing older adult blood pressure screening in a community setting by interprofessional students". In: *Innovation in Aging* 6.Suppl 1 (2022), p. 517.
 - [7] M. Chiarito, A. Roumeliotis, D. Cao, D. Power, S. Sartori, Z. Zhang, A. Reisman, T. Mtisi, M. Nardin, J. Nicolas, H. Qiu, **A. Turfah**, et al. "Prevalence and prognostic impact of high bleeding risk status in patients undergoing percutaneous coronary intervention for left main coronary artery disease". In: *Journal of the American College of Cardiology* 77.18 Supplement 1 (2021), pp. 1148–1148.
 - [6] M. Nardin, D. Cao, M. Chiarito, J. Nicolas, S. Sartori, Z. Zhang, H. Qiu, **A. Turfah**, G. Giustino, R. Chandiramani, et al. "Prognostic value of the academic research consortium for high bleeding risk criteria in patients with diabetes melitus undergoing PCI". In: *Journal of the American College of Cardiology* 77.18 Supplement 1 (2021), pp. 167–167.
 - [5] J Nicolas, D Cao, B Claessen, S Sartori, A Roumeliotis, R Goel, R Chandiramani, G Stefanini, **A Turfah**, S Chen, et al. "Intersection of the Academic Research Consortium–high bleeding risk

- criteria in patients undergoing PCI for acute coronary syndromes: insights from a high-volume single centre registry”. In: *European Heart Journal* 41.Supplement_2 (2020), ehaa946–2494.
- [4] J. Nicolas, D. Cao, B. Claessen, S. Sartori, R. Chandiramani, A. Roumeliotis, R. Goel, A. Camaj, F. Beerkens, **A. Turfah**, G. Dangas, U. Baber, S. Sharma, A. Kini, and R. Mehran. “Long-term outcomes in high-bleeding risk patients undergoing PCI for acute coronary syndromes: results from a large single-center PCI registry”. In: *European Heart Journal* 41 (2020).
- [3] J. Nicolas, D. Cao, B. Claessen, S. Sartori, A. Roumeliotis, R. Goel, R. Chandiramani, G. Stefanini, **A. Turfah**, S. Chen, G. Dangas, U. Baber, S. Sharma, A. Kini, and R. Mehran. “Intersection of the Academic Research Consortium - high bleeding risk criteria in patients undergoing PCI for acute coronary syndromes: insights from a high-volume single center registry”. In: *European Heart Journal* 41 (2020).
- [2] J. Nicolas, B. E Claessen, D. Cao, M. Chiarito, S. Sartori, H. Qiu, R. Goel, M. Nardin, A. Roumeliotis, B. Vogel, **A. Turfah**, R. Chandiramani, U. Baber, N. Barman, J. Sweeny, P. Krishnan, A. Kini, S. K. Sharma, G. D. Dangas, and R. Mehran. “Sex Disparities Among Patients Undergoing Complex Percutaneous Coronary Intervention (PCI): Insights From a Single-Center Large-Volume PCI Registry”. In: *Journal of the American College of Cardiology* 76.17 Supplement S (2020), B162–B163.
- [1] Johny Nicolas, Bimmer Claessen, Davide Cao, Mauro Chiarito, Samantha Sartori, Hanbo Qiu, Anastasios Roumeliotis, Ridhima Goel, Matteo Nardin, Birgit Vogel, et al. “TCT CONNECT-378 Sex Disparities Among Patients Undergoing Complex Percutaneous Coronary Intervention (PCI): Insights From a Single-Center Large-Volume PCI Registry”. In: *Journal of the American College of Cardiology* 76.17 Supplement S (2020), B162–B163.

Professional Experience

Research Assistant , <i>Department of Biomedical Informatics, Columbia University</i>	2020 – 2021
<i>Adviser: Dr. Chunhua Weng</i>	
Data Analyst Intern , <i>Icahn School of Medicine at Mount Sinai</i>	2020
<i>Adviser: Dr. Samantha Sartori</i>	
Data Scientist , <i>Algo, Troy, MI</i>	2018 – 2019
Machine Learning Engineering Intern , <i>Algo, Troy, MI</i>	Summer 2017

Other Experience

Lecturer , <i>Big Data Summer Institute, University of Michigan</i>	Summers 2023 and 2024
Deliver workshop-style lectures on linear and logistic regression to undergraduate program participants	
Alumni Mentor , <i>Columbia University</i>	2023
Mentor current Statistics M.A. students in preparation for Ph.D. programs	
Peer Mentoring Committee , <i>University of Michigan</i>	2022 – 2023
Provide support to incoming students by mentoring programs and communicate concerns to the department	
Graduate Student Mentor , <i>Ardsley High School, New York, NY</i>	2020 – 2021
Assist high-school students with statistical analyses for the Westchester Science and Engineering Fair projects	
Workshop Leader , <i>Canton Public Library, Canton, MI</i>	Winter 2016
Organized and delivered superhero themed chemistry workshop for elementary school participants	