

Mourin Jarin (Mo)

PhD Student – Department of Environmental Engineering

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Education

2020 – Present PhD, Environmental Engineering, Georgia Institute of Technology, Atlanta, GA
2016 – 2020 BS, Chemical Engineering, University at Buffalo (UB), SUNY, Buffalo, NY

Honors/Awards

2022 Ford Foundation Predoctoral Fellowship Competition, Honorable Mention
2022 Student Government Association Conference Fund Award, GT
2022 1st Place, VentureLab CRIDC Innovation Competition, GT
2021 Pittsburg Innovation Case Competition Semi-Finalist
2021 Excellence in Environmental Engineering and Science Honor Award, AAEEES
2021 NSF I-Corps Award, National Science Foundation
2021 Faces of Inclusive Excellence Honoree, Georgia Institute of Technology
2021 NSF Revolutionizing Engineering Departments (NSF RED) Fellow, GT
2021 IEN Facility Seed Grant Award, Georgia Institute of Technology
2021 1st Place, Sustainable Nanotechnology Organization Nanopitch Contest
2021 Entrepreneurial Impact Prize, Georgia Institute of Technology
2020 President's Fellowship, Georgia Institute of Technology
2020 Georgia Power Research Fellowship, Georgia Institute of Technology
2020 Sustainable Nanotechnology Organization Student Award
2020 Water Tech Hub Challenge Semi-Finalist, The Water Council
2020 VentureLab Female Founders Program, I-Corps South & Georgia Institute of Technology
2020 The Second Pan-American Nanotechnology Conference Travel Award
2016-2020 University at Buffalo Undergraduate Dean's List
2019 NSF Research Experience for Undergraduates (REU), SUNY Buffalo
2019 Experiential Learning Network Individual Conference Funding Award, SUNY Buffalo
2018 Certificate of Academic Excellence in Undergraduate Research, SUNY Buffalo
2017 Certificate of Undergraduate Research in a Graduate Field, Cornell University

Journal Publications

1. Dawei Wang, Yuanyuan Chen, **Mourin Jarin**, Xing Xie. Increasingly frequent extreme weather events urge the development of point-of-use water treatment systems. (Submitted)
2. **Mourin Jarin**, Zeou Dou, Haiping Gao, Yongsheng Chen, Xing Xie. Salinity exchange electrodialysis (SEE) for potable water. (Submitted)
3. Lu Song, Jianfeng Zhou, Can Wang, Ge Meng, Yunfei Li, **Mourin Jarin**, Ziyang Wu, Xing Xie. Airborne pathogenic microorganisms and air cleaning technology development: A review. *Journal of Hazardous Materials*, 2021. <https://doi.org/10.1016/j.jhazmat.2021.127429>
4. Arvid Masud, Mary Grace E. Guardian, Steven C. Travis, Nita G. Chavez Soria, **Mourin Jarin**, Diana S. Aga, Nirupam Aich. Redox-active rGO-nZVI nanohybrid-catalyzed chain shortening of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS). *Journal of Hazardous Materials*, 2020. DOI: <https://doi.org/10.1016/j.hazl.2020.100007>.

Presentations

1. Salinity Exchange Electrodialysis (SEE) for Potable Water. American Chemical Society (ACS) Conference, San Diego, CA. March 22nd, 2022. (Oral)
2. Salinity Exchange for Potable Water Production. American Chemical Society (ACS) Conference, Atlanta, GA. August 25th, 2021. (Oral)
3. Solution to Disinfection By-Products with VoltaPure Water Disinfection Technologies. Sustainable Nanotechnology Organization (SNO) Conference, Virtual. March 24th, 2021. (Oral)
4. Nano-enabled Water Treatment Technologies for PFAS Degradation and Removal. The Second Pan-American Nanotechnology Conference, Aguas de Lindoia, SP, Brazil. March 6th, 2020. (Poster)
5. Nano-enabled Water Treatment Technologies for PFAS Degradation and Removal. The Second Pan-American Nanotechnology Conference, Aguas de Lindoia, SP, Brazil. March 5th, 2020. (Oral)
6. Nano-enabled Water Treatment Technologies for PFAS Degradation and Removal. Sustainable Nanotechnology Organization (SNO) Conference, San Diego, CA. November 9th, 2019. (Oral)
7. Nano-enabled Water Treatment Technologies for PFAS Degradation and Removal. Sustainable Nanotechnology Organization (SNO) Conference, San Diego, CA. November 8th, 2019. (Poster)
8. Nano-enabled Water Treatment Technologies for PFAS Degradation and Removal. NSF-REU Environmental Engineering Solutions for Pollution Prevention (EESPP) Symposium, University at Buffalo, SUNY, Buffalo, NY. August 7th, 2019. (Poster)
9. Synthesis and Characterization of rGO-TiO₂ Nanohybrids. Undergraduate Research Symposium for Academic Excellence, University at Buffalo, SUNY, Buffalo, NY. April 26th, 2018. (Poster)
10. Arthritis Control through Dual Axis Lubricin Over-Expression and Catabolic Cytokine Antagonism. Biological and Biomedical Sciences Graduate Symposium, Cornell University, Ithaca, NY. August 18th, 2017. (Poster)

Leadership

08/2021-Present	Graduate Student Group Leader, Georgia Institute of Technology, Atlanta, GA
08/2020-Present	Entrepreneurial Lead, VoltaPure, Georgia Institute of Technology, Atlanta, GA
08/2016-05/2020	Undergraduate Mentor, Women in Science and Engineering, SUNY Buffalo, NY
09/2018-05/2019	Public Relations, Japanese Student Association, SUNY Buffalo, NY
09/2017-05/2018	President, Fargo Hall Council, Residential Hall Association, SUNY Buffalo, NY
09/2016-05/2017	Coxswain, Division One Women's Rowing Team, SUNY Buffalo, NY
09/2016-05/2017	President, Wilkes Hall Council, Residential Hall Association, SUNY Buffalo, NY

Teaching/Work Experience

08/2021-Present	GT6000 Course TA, Georgia Institute of Technology, Atlanta, GA
10/2017-05/2020	Research Assistant, Environmental Engineering Dep., SUNY Buffalo, NY
05/2019-08/2019	NSF-REU, SUNY Buffalo, NY
05/2018-08/2018	Field Research Technician, Cornell University, Ithaca, NY
05/2017-08/2017	Research Internship, Cornell University, Ithaca, NY
09/2016-05/2017	STEM Tutor, SUNY Buffalo, NY

References

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