

EDIN OSMANBASIC

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PUBLICATIONS

- (2025) **Edin Osmanbasic**, Diyali Sil, Gauri Tripathi, Jahid Haidar, Anaranya Ghorai, Chayan Dutta, "Preparation of Environmentally Relevant Fluorescent Nanoplastics and Single-Particle Diffusion on Cholesterol-rich Lipid Bilayer", (Manuscript Under Preparation, D.S. and **E.O.** contributed equally).
- (2024) Chayan Dutta, Diyali Sil, **Edin Osmanbasic**, "Variable Non-Gaussian Transport of Nanoplastics on Supported Lipid Bilayers in Saline Conditions", J. Phys. Chem. Lett.

PRESENTATIONS

- **Edin Osmanbasic**, Diyali Sil, Anaranya Ghorai, Chayan Dutta, "Preparation of model nanoplastic particles using the confined impingement jet with dilution method for single particle experiments", Southeastern Regional Meeting of the American Chemical Society, 2024
- **Edin Osmanbasic**, Diyali Sil, Anaranya Ghorai, Chayan Dutta, "Preparation of model nanoplastic particles using the confined impingement jet with dilution method for single particle experiments", Summer Undergraduate Research Symposium, Georgia State University, 2024
- Diyali Sil, **Edin Osmanbasic**, Chayan Dutta, "Polystyrene Nanoplastics Show Variable Non-Gaussian Transport on a Model Lipid Surface in Salt Conditions", Chemistry Graduate Student Association Symposium, Georgia State University, 2024
- **Edin Osmanbasic**, Diyali Sil, Chayan Dutta, "Ionic strength dependent nanoplastic transport on biomembranes studied using single particle tracking", 17th Annual Herty Medalist Undergraduate Research Symposium (HMURS), Georgia Gwinnett College, 2023
- Diyali Sil, **Edin Osmanbasic**, Keaira Brown, Karemma Brown, Chayan Dutta, "Salt dependent transport of plastic nanoparticles on a biomimetic membrane surface using single particle tracking", Chemistry Graduate Student Association Symposium, Georgia State University, 2023

AWARDS AND HONORS

- Academic Letter and Central Chevron, Forsyth Central High School
- HOPE Award and Scholarship, Georgia State University
- Dean's List and President's List, Georgia State University
- Award in Undergraduate Physical Chemistry, American Chemical Society
- Outstanding Undergraduate Poster Award, Georgia State University

EDUCATION

Master of Science in General Chemistry
Georgia State University | Atlanta GA

Winter 2025

Bachelor of Science in Chemistry (Magna Cum Laude)
Georgia State University | Atlanta GA

Winter 2024

LABORATORY SKILLS

- Gas, Thin Layer, Liquid and Column Chromatography
- Raman, Photoluminescence, Absorbance and Infra-red Spectroscopy
- Total Internal Reflection Fluorescence, HiLo, and Confocal Microscopy

WORK EXPERIENCE

Molecular Basis of Disease Summer Undergraduate Fellowship Researcher
Georgia State University | Atlanta GA

June 2024 – August 2024

Performed research concerning the impact of plastic pollution on biological systems
Prepared biological samples for experiments
Designed a device to accurately manufacture plastic particles of specific sizes
Developed MATLAB and Python code to analyze plastic particles using single particle tracking methods

Pharmacy Technician

Jan 2021 - Present

Publix Super Markets Inc | Cumming GA

Count, measure, and compound prescriptions applying labels and verifying accuracy with the pharmacist before dispensing
Precisely maintain over the counter and pharmacy inventory, properly documenting and disposing expired products
Educate patients on prescribed medication
Correctly calculate dosages according to physician notes
Apply knowledge of drugs, their usage, and their effect before agreeing to dispense medication
Immediately notify the pharmacist of dosage or label inaccuracies
Prepare medications including liquids, ointments, and powders
Follow FDA drug safety guidelines
Calculate drug dosages and prepare prescription labels for the pharmacist to approve

Customer Service Associate

Jan 2020 - Jan 2021

Publix Super Markets Inc | Cumming GA

Greet all customers with a warm, friendly welcome

Answer basic questions from customers in a clear, friendly manner
Ensure high-level customer service
Handle numerous different tasks and be able to switch to them whenever necessary
Diffuse intense customer situations to maintain a high-level of satisfaction
Train new hires, ensuring compliance with all regulations and standards
Use chemical cleaners and dilute them properly to ensure the safety of employees and customers

VOLUNTEER EXPERIENCE

Member

Community Of Bosniaks

2014 - Present

SKILLS AND ABILITIES

Computer Software

- MATLAB
- Python
- Excel

Languages

- English
- Bosnian
- Croatian
- Serbian