Jana Jelušić

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EDUCATION

YALE UNIVERSITY — **NEW HAVEN, CT**
Doctor of Philosophy in Physical Chemistry — August 2021 - Present
Advisors: Gary W. Brudvig and Victor S. Batista

UNIVERSITY OF ROCHESTER — **ROCHESTER, NY**
Bachelor of Sciences Degree in Chemistry — August 2016 - May 2020
Awarded High Distinction in Chemistry
Dean's List (4 semesters)

RESEARCH EXPERIENCE: UNIVERSITY OF ROCHESTER

CHEMISTRY DEPARTMENT — **ROCHESTER, NY**
Laboratory Technician II — July 2020 - June 2021
Research Advisors: Kara L. Bren and Todd D. Krauss
Project: *Shewanella oneidensis* MR-1 as a Living Electron Donor in Light-Driven Hydrogen Production Systems
- Designing and conducting project experiments
- Coordinating with collaborating laboratories
- Diverse laboratory work employing photochemistry, spectroscopic characterization, cyclic voltammetry, gas chromatography, bacterial growth assays, and data analyses
- Presentation of research updates at group meetings

CHEMISTRY DEPARTMENT — **ROCHESTER, NY**
NSF REU Scholar and Undergraduate Thesis — June 2018 - May 2020
Research Advisors: Kara L. Bren (*thesis*) and Todd D. Krauss
Project: Multicomponent Systems for Photochemical Hydrogen Evolution
- Laboratory work employing cyclic voltammetry, photochemistry, gas chromatography, UV-vis spectroscopy, mass spectrometry, and data analyses
- Attendance and participation at group meetings
- Giving oral and poster research presentations
- Preparation of a final thesis, report, and poster

MEDICAL CENTER — **ROCHESTER, NY**
Technical Assistant — November 2016 - May 2017
Research Advisor: Wei Hsu
Project: Ubiquitin-like Modifiers in Development and Disease
- Prepared chemical solutions
- Maintained lab equipment
- Performed bacterial plasmid isolation and purification, gel electrophoresis, immunocytochemistry, immunohistochemistry, sectioning of brain tissues

TEACHING EXPERIENCE: UNIVERSITY OF ROCHESTER

CHEMISTRY DEPARTMENT **NEW HAVEN, CT**
Teaching Fellow (CHEM 136L: General Chemistry Laboratory II) Spring 2022
• Leading two weekly laboratory sessions
• Holding weekly office hours
• Grading assignments and laboratory reports

CHEMISTRY DEPARTMENT **NEW HAVEN, CT**
Teaching Fellow (CHEM 134L: General Chemistry Laboratory I) Fall 2021
• Leading two weekly laboratory sessions
• Holding weekly office hours
• Grading laboratory reports

CHEMISTRY DEPARTMENT **ROCHESTER, NY**
Workshop Leader (CHEM 252: Physical Chemistry II) Spring 2020
• Leading two weekly workshop sessions
• Holding weekly office hours
• Grading homework assignments and exams

CHEMISTRY DEPARTMENT **ROCHESTER, NY**
Workshop Leader (CHEM 211: Inorganic Chemistry) Fall 2019
• Leading weekly workshop sessions
• Holding exam review sessions
• Grading exams

CHEMISTRY DEPARTMENT **ROCHESTER, NY**
Peer Advisor Fall 2019 - Spring 2020
• Helping students declare a major
• Encouraging student-faculty interactions
• Introducing research opportunities
• Exploring study abroad options
• Investigating independent and interdisciplinary study options

CHEMISTRY DEPARTMENT **ROCHESTER, NY**
Workshop Leader (CHEM 132: Chemical Concepts, Syst, Pract II) Spring 2018, 2019, 2020
• Leading weekly workshop sessions
• Holding weekly office hours
• Holding exam review sessions
• Maintaining attendance records and homework completeness
• Grading exams

AWARDS AND HONORS

American Chemical Society (ACS) Physical Chemistry Award 2020
Carl A. Whiteman, Jr. Teaching Award 2020
Junior Scholar Award for Juniors 2019
Martin P. Zemel and Laura L. Fulton Endowed Scholarship 2019
Best Poster in the Natural Sciences Division, Undergraduate Research Exposition 2019

PRESENTATIONS

Undergraduate Thesis Oral Presentation: Multicomponent Systems for Photochemical Hydrogen Production	2020
Research Poster Presentation: Photocatalytic Hydrogen Production Using CdSe Quantum Dots and Cobalt Catalysts	2019
REU Poster Presentation: Catalytic Complex Formation in the Photocatalytic Hydrogen Production System	2018
REU Oral Presentation: Photocatalytic Hydrogen Production	2018

PUBLICATIONS

1. Burke, R.; Chakraborty, S.; McClelland, K. P.; Jelušić, J.; Matson, E. M.; Bren, K. L.; Krauss, T. D. Light-driven hydrogen production with CdSe quantum dots and a cobalt glutathione catalyst. *Chemical Communications* **2021**, *57* (16), 2053-2056, 10.1039/D0CC07364D. DOI: 10.1039/D0CC07364D.

2. Edwards, E. H.; Jelušić, J.; Chakraborty, S.; Bren, K. L. Photochemical hydrogen evolution from cobalt microperoxidase-11. *Journal of Inorganic Biochemistry* **2021**, *217*, 111384. DOI: https://doi.org/10.1016/j.jinorgbio.2021.111384.