

Henry Wisniewski

Dr. Fei Zhang Lab

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ACADEMIC POSITIONS AND EDUCATION

Laboratory Teaching Assistant – Chemistry 2021- Current
Rutgers University, Newark NJ

- General Chemistry

Ph.D. in Chemistry 2021 - Current (Expected 2026)
Rutgers University, Newark NJ

Laboratory Teaching Assistant – Chemistry 2018 - 2021
St. Olaf College

- General Chemistry, Organic I and Organic II, Analytical, Physical, and Forensic lab

B.A. in Chemistry 2017 - 2021
St. Olaf College, Northfield MN

B.A. in Mathematics 2017 - 2021
St. Olaf College, Northfield MN

AWARDS AND HONORS

Nominated for the “Rutgers Excellence Dissertation Fellowship Award” 2021
(Rutgers University Newark)

ACS Undergraduate Award in Analytical Chemistry 2021
(American Chemical Society)

Distinction in Chemistry 2021
(St. Olaf College)

RESEARCH EXPERIENCE

Researcher; St. Olaf College

2019 - 2021

Research Supervisor: Dr. Douglas Beussman

Project 1: Tetrahymena Proteomics: Identifying Tetrahymena Proteins Using MALDI-TOFTOF

- Extracted, digested, and purified gel bound Tetrahymena proteins using trypsin.
- Characterized proteins with MALDI-TOFTOF
- Identified proteins with data mining using GPMW and Proteomic databases
- Contact for copy of Distinction paper

Project 2: Analysis of Human Scent Compounds Using GCMS

- Collected demographic information and scent samples
- Processed and analyzed scent compounds using GCMS
- Identified compounds using datamining and databases

LABORATORY SKILLS

Experimental: SDS-PAGE, Titration, Native gel electrophoresis, Protein digestion, PCR.

Instrumentation: MALDI-TOF, GCMS, NMR spectroscopy, IR spectroscopy, UV-Vis spectroscopy, HPLC, AAS, ICP-AES.

Computational: Latex, CaDNAano, Tiamat, Microsoft Office, R, LabView, Python, Mathematica, Java, VMD & NAMD for MD simulations.

GRADUATE COURSEWORK

Completed: Biochemistry and Crystal & Molecular Structures I

In Progress: Hybrid Nanomaterials & Biophysical Chemistry

UNDERGRADUATE COURSEWORK

Chemistry: General Chemistry, Atomic and Molecular Structure, Chemical Reactions, Organic I, Organic II, Organometallic Chemistry, Analytical Chemistry, Physical Chemistry, Instrumental Analysis, Advanced Inorganic Chemistry, and Bioanalytical Chemistry.

Mathematics: Honors Calculus II, Linear Algebra, Multivariable Calculus, Number Theory, Modern Computational Mathematics, Abstract Algebra I, Graph Theory, Algorithms for Decision Making, and Statistics for Science.

Other: Principles of Physics I and Principles of Physics II