

Henry Wisniewski

Fei Zhang Lab

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73 Warren Street
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ACADEMIC POSITIONS AND EDUCATION

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

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

Department of Chemistry Teaching Assistant Award 2022-2023 2023
Rutgers University, Newark NJ

Nominated for the "Norman Samuels Award" 2021
Rutgers University, Newark NJ

ACS Undergraduate Award in Analytical Chemistry 2021
American Chemical Society

Completion of ACS Undergraduate Chemistry Major 2021
American Chemical Society

Distinction in Chemistry 2021
St. Olaf College, Northfield MN

PUBLICATIONS

2. Yeon Lee, J.; Yang, Q.; Chang, X.; [Wisniewski, H.](#); R. Olivera, T.; Saji, M.; Kim, S.; Perumal, D.; Zhang, F.
Nucleic Acid Paranemic Structures: A Promising Building Block for Functional Nanomaterials in Biomedical and Bionanotechnological Applications.
[J. Mater. Chem. B.](#) (2022)

1. Yang, Q.; Chang, X.; Lee, J. Y.; Olivera, T. R.; Saji, M.; [Wisniewski, H.](#); Kim, S.; Zhang, F.
Recent Advances in Self-Assembled DNA Nanostructures for Bioimaging.
[ACS Appl. Bio Mater.](#) (2022)

PRESENTATIONS AND CONFERENCES

Workshop: “Getting Started with Alternative Grading” 2024
Oakton College, Des Plaines, IL

Workshop: “Accessibility in Lab: From Macro to Micro” 2024
Emory University, Atlanta GA

MYFest July, 2023
Equity Unbound

- Workshop: Customizing alternative grading for scale (track: Ungrading in STEM: Equity Concerns) with Courtney Sobers

Excellence in Teaching Day May, 2023
Boston College, Boston MA

- Workshop: Imagining Alternative Grading in STEM
 - Before the pandemic started, Dr. Courtney Sobers recognized that traditional grading systems made life unnecessarily difficult for the students in her general chemistry lab course. These students were managing circumstances that impacted their ability to focus on their academic responsibilities, such as being the first in their family to attend college, employment, and caregiving duties. The pandemic further highlighted these disparities in privilege, motivating Dr. Sobers to increase course flexibility without compromising the student learning experience. In this research presentation, Dr. Sobers, along with Head TA Henry Wisniewski, will describe the process of moving from traditional grading to alternative grading in General Chemistry II Lab. They will discuss how the grading approach changes impacted TAs, students, and the instructor, and the conversation around grades/grading. Dr. Sobers will also discuss alternative grading in summer Organic Chemistry I and II lectures. This interactive presentation addresses concerns particular to STEM courses, but also promises to be of interest to instructors considering using alternative grading in other disciplines or non-lecture style courses.
- Workshop: Getting Started with Alternative Grading
 - Bring an assessment or assignment from one of your courses and think with colleagues about how to apply a grading method that better aligns with your intentions for student learning. Facilitated by Professor Courtney Sobers, attendees will explore alternative grading approaches for a range of assessments (classroom, clinical, skilled-based, etc.). Time will also be devoted to adapting for externally defined course requirements. Head Teaching Assistant Henry Wisniewski will contribute valuable insights around how TAs can support your efforts and how TAs impact the efficacy of the grading approach. Dr. Sobers and Henry will also discuss how to manage expectations and workload for students, TAs, and instructors. Space for this workshop is limited, so we encourage everyone interested to register soon. This workshop addresses concerns particular to STEM courses, large courses, and accelerated courses, but will be of interest to all instructors who are considering alternative grading.

TEACHING AND MENTORING

Guest Lecturer – Chemistry March, 2023

Rutgers University, Newark NJ

26:160:591 Special Topics in Materials Chemistry: Biomolecular Design and Nanotechnology

- LaTeX Introduction and Workshop

Laboratory Teaching Assistant – Chemistry 2021 - Current

Rutgers University, Newark NJ

- General Chemistry I & II

Laboratory Teaching Assistant – Chemistry 2018 - 2021

St. Olaf College, Northfield MN

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

Undergraduate Students:

Manar Moussa

Fall 2023 - Current

Chemistry Department Rutgers University, Newark NJ

Moises Reyes

Summer 2023 - Current

Chemistry Department Rutgers University, Newark NJ

Samuel Annan

Summer 2022

Caldwell University, Caldwell NJ

High School Students:

Diego Arias

Summer 2022

Jose Marti STEM Academy, Union City NJ

RESEARCH EXPERIENCE

Ph.D Student; Rutgers University, Newark NJ 2021 - Current

Research Supervisor: Dr. Fei Zhang

Researcher; St. Olaf College, Northfield MN 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: RNA Transcription, Native and Denature PAGE, Titration, Agarose gel electrophoresis, Protein digestion.

Instrumentation: Atomic Force Microscopy for Biological Samples, MALDI-TOF, Thermocycler, GCMS, NMR spectroscopy, IR spectroscopy, UV-Vis spectroscopy, HPLC, AAS, ICP-AES, x-ray diffractometer.

Computational: LaTeX, CaDNAano, Tiamat, Microsoft Office, R, LabView, Python, Mathematica, Java, Amarel super computer.

GRADUATE COURSEWORK

Completed: Biochemistry, Crystal & Molecular Structures I, Hybrid Nanomaterials, Biophysical Chemistry, Heterocyclic Compounds, Special Topics in Physical Chemistry (Computational), Biomolecular Design Nanotechnology, and Analytical Spectroscopy.

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 I