

# Nicholas F Santo

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## EDUCATION

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### Master of Arts in Theological Studies

*Evangel University*

*Advisor: Dr. Rick Wadholm*

**May 2024**

*Springfield, MO*

### Master of Science—Chemistry. Specialization Organic/biochemistry

*University of Missouri*

*Advisor: Dr. Kent Gates*

**Dec 2014**

*Columbia, MO*

### Bachelor of Science—Chemistry & Human biology minor

*College of the Ozarks*

**May 2011**

*Point Lookout, MO*

## RESEARCH EXPERIENCE

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### Graduate Student Researcher

*University of Missouri Graduate Studies*

Investigated the chemical mechanisms by which endogenous cellular processes and pharmacological agents modulate the function of PTP1B (enzyme) by employing the tools of synthetic organic chemistry, physical organic chemistry, biochemistry, biophysics, and molecular biology to characterize the molecular events underlying important biological processes.

**Jan 2012 - June 2015**

*Columbia, MO*

### Undergraduate Research

*College of the Ozarks*

Synthesized and tested the pharmacological activity of fluorinated  $\beta$ -lactams as broad-spectrum antibiotics

**Aug 2010 – May 2011**

*Point Lookout, MO*

### Undergraduate Research Internship

*Wake Forest University School of Medicine*

Investigated the biochemical response of rodents following whole brain radiation. A major effect includes a chronic inflammatory response following the increased activation of microglia (brain macrophages) cells. The team focused on the effect of regulating redox-regulated pro-inflammatory transcription factors NF- $\kappa$ B and AP-1 pathways on the radiation-induced microglial pro-inflammatory response.

**June 2008- Aug 2008**

*Wake Forest, NC*

## TEACHING EXPERIENCE

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### Assistant Professor of Chemistry

*Evangel University Department of Applied and Natural Sciences*

Developed and taught a diverse range of undergraduate chemistry courses, including general chemistry, chemistry for health science, organic chemistry, inorganic chemistry, and medicinal chemistry.

**Aug 2022 - Present**

*Springfield, MO*

### Graduate Teaching Assistant

*University of Missouri*

**Jan 2012 – June 2015**

*Columbia, MO*

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Assist Professors with undergraduate chemistry courses (classroom and/or lab). Examples include teaching general chemistry lab lectures, managing laboratory sections, quizzes, tutoring, grading, and developing materials. Furthermore, tutoring/office hours are applied each week for any undergraduate chemistry courses.

### **Teaching Assistant**

*College of the Ozarks*

**Aug 2007 – Jan 2011**

*Point Lookout, MO*

Served under the chemistry professors in the classrooms and laboratory. The job description each week included: Lab prep/ TA tutoring, grading lab reports, supervising teaching labs, and proctor exams (on occasions).

### **PUBLICATIONS**

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Zachary D. Parsons, Kasi Viswanatharaju Ruddraraju, **Nicholas Santo**, Kent S. Gates. Sulfone-stabilized carbanions for the reversible covalent capture of a posttranslationally-generated cysteine oxoform found in protein tyrosine phosphatase 1B(PTP1B). *Bioorganic & Medicinal Chemistry*, Volume 24, Issue 12, 2016, 2631-2640.

### **AWARDS AND HONORS**

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**First Place Award, undergraduate research in biochemistry & chemistry oral presentation at the MAS (Missouri Academy of Sciences) regional meeting**

**Oct 2011**

*Missouri State University*

### **PRESENTATIONS**

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**Nicholas Santo.** Synthesis of a fluorinated  $\beta$  lactam molecule to inhibit bacteria growth. 2010 MAS regional meeting and ACS meeting.

### **SERVICE AND OUTREACH**

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#### **International Outreach Ministry**

*Chi Alpha Campus Ministries at Missouri State University*

**Jan 2020 – present**

*Springfield, MO*

#### **International Outreach Ministry**

*Chi Alpha Campus Ministries at University of Missouri*

**Jan 2015 – Dec 2019**

*Columbia, MO*

#### **Mission Trip, Team Leader**

*Chi Alpha Yogyakarta at International English Center*

**July 2018 – Aug 2018**

*Yogyakarta, Indonesia*

## PROFESSIONAL DEVELOPMENT

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**Graduate Class on Pharmaceutical Chemistry**

*The University of Florida College of Pharmacy*

**May 2025 - Jul 2025**

## PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

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**Member, American Chemical Society**

**Aug 2025 – Present**

**Member, Sigma Zeta–National Science & Mathematics Honor Society**

**Aug 2008 – Dec 2010**