

Thomas Spoehr

STATISTICS GRADUATE STUDENT

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Professional Summary

Current PhD statistics student with past internship experience and a passion for analyzing/synthesizing data for informed, logical decision-making. Skilled in technical programs such as Python, R, and Microsoft Excel which allow for streamlined results and efficient analysis.

Education

Central College

MATHEMATICS

Pella, IA

2018 - 2022

University of Nebraska - Omaha

MASTERS OF ARTS - MATHEMATICS

Omaha, NE

2022 - 2025

University of Nebraska - Lincoln

DOCTORATE OF STATISTICS

Lincoln, NE

2025 - Current

Teaching and Advising

Department of Statistics

University of Nebraska-Lincoln

2025 - Current

TEACHING ASSISTANT

- Planned lessons and assignments, conducted office hours, graded papers and exams
- Acted as teaching assistant for a section of introductory statistics
- Composed and assessed all exams

Department of Mathematics

University of Nebraska-Omaha

2023 - 2025

TEACHING ASSISTANT

- Acted as an instructor of record for multiple sections of college algebra
- Implemented active learning techniques with a student focused paradigm
- Applied a standards-based grading system to further student learning and success

Department of Mathematics

University of Minnesota State - Mankato

2022 - 2023

TEACHING ASSISTANT

- Acted as instructor of record for multiple sections of precalculus
- Created all materials for course including exams, assignments, and presentation slides
- Graded all assessments for the course

Research

University of Nebraska – Omaha

MASTER'S STUDENT RESEARCH

2024-2025

- Conducted original research which expanded upon existing works in image cryptography
- Created a novel chaotic map and new encryption methodology for more effective and efficient image cryptography
- Failed submission to "Signal Image Processing"; currently resubmitting to other peer-reviewed journals

Conference Presentations

Alexandria, VA

EXPLORING THE RELATIONSHIP BETWEEN PREEXISTING ATTITUDES AND RESULTING ATTITUDES IN A FIRST-YEAR COLLEGE

Spring 2025

ALGEBRA COURSE

- Research for Undergraduate Math Education

AN INNOVATIVE ENCRYPTION ALGORITHM EMPLOYING MULTISTEP PIXEL MANIPULATION VIA AN ENHANCED CHAOTIC SYSTEM

- MAA Sectional Meeting

Omaha, NE

Spring 2025

EXPLORING THE RELATIONSHIP BETWEEN PREEXISTING ATTITUDES AND RESULTING ATTITUDES IN A FIRST YEAR COLLEGE

ALGEBRA COURSE

- MAA Sectional Meeting

Vermillion, SD

Spring 2024

MIDWEST SPORTS ANALYTICS CONFERENCE CO-DIRECTOR

- Co-Director

Pella, IA

Fall 2020, 2021

INVESTIGATING THE RELATION BETWEEN ACCELERATION AND IMPACTS ON GOALIES IN SOCCER

- Midwest Sports Analytics Conference

Pella, IA

Fall 2020

#Honors and Awards

University of Nebraska - Lincoln

OTHMER FELLOWSHIP

2025-Present

- For perceived excellence in candidacy for PhD studies

University of Nebraska - Lincoln

APC MEETING SPEAKER

2025

- Selected as lone graduate student speaker to defend departmental cuts

Central College

ACADEMIC SCHOLARSHIP

2018-2022

- For excellent academic standing

Other

University of Nebraska-Lincoln

MEMBER OF GRADUATE STUDENT ASSOCIATION

2025

University of Nebraska-Lincoln

MEMBER OF GRAPHICS GROUP

2025

University of Nebraska-Omaha

VOLUNTEER AT UNO HIGH SCHOOL MATH COMPETITION

2024

Industry

Smeal Fire Apparatus

Snyder, NE

SUPPLY CHAIN AND LOGISTICS DATA INTERN

Summer 2025

- Created an automated process using Python to monitor vendor quality
- Utilized Microsoft Excel to perform extensive analysis on daily, excess, and obsolete inventory which cut 15 unnecessary stock

References

University of Nebraska - Omaha

402-554-3295

DORA VELCSOV

Professor of Mathematics

- dvelcsv@unomaha.edu

Central College

641-628-7640

RUSSELL GOODMAN

Professor of Mathematics

- goodmanr@central.edu