

Jason Turner

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EDUCATION

UNIVERSITY OF WISCONSIN - MADISON | PH.D. IN MATHEMATICS

Expected May 2023 | Madison, WI

UNION COLLEGE | B.Sc. IN MATHEMATICS AND PHYSICS

June 2018 | Schenectady, NY

RESEARCH PROJECTS

IMPLEMENTATION OF A MULTI-MODEL ENSEMBLE FOR CLIMATE FORECASTING

STECHMANN, S., & TURNER, J.

November 2018 - Present

PARALLELIZATION LIBRARY FOR GEOPHYSICAL FLUID DYNAMICS CODE

STECHMANN, S. & TURNER, J.

September 2018 - Present

STATISTICAL ANALYSIS OF RICHTMYER-MESHKOV INSTABILITIES

CANFIELD, J., FLYNN, P., SAENZ, J., & TURNER, J.

June 2018 - August 2018

SIMULATION OF ELEMENTARY FLUID FLOWS

LABRAKE, S., & TURNER, J.

January 2018 - June 2018

PERSISTENT HOMOLOGICAL ANALYSIS OF BUCKYBALL[®] ARRANGEMENTS

GASPAROVIC, E., JOHNSON, B., MANN, N., TURNER, J., & YANG, C.

September 2017 - March 2018

GENERALIZATIONS OF COLLATZ FUNCTIONS

ALVARADO, A., CEJA AYALA, R., KNUTSEN, E., & TURNER, J.

June 2017 - August 2017

CONSTRUCTION OF A QUANTUM OPTICAL SETUP

LAUGHARN, A., SEYFOLLAH, M., & TURNER, JASON

June 2016 - May 2017

HURRICANE LINKS

JOHNSON, B., & TURNER, J.

November 2015 - May 2017

PHASE TRANSITIONS OF NANO-CONFINED ALCOHOLS

AMANUEL, S., & TURNER, J.

March 2015 - June 2016

TEACHING

TEACHING ASSISTANT | UNIVERSITY OF WISCONSIN - MADISON DEPARTMENT OF MATHEMATICS

MATH 221 - Calculus and Analytic Geometry 1 Spring 2019

MATH 221 - Calculus and Analytic Geometry 1 Autumn 2018

COURSE ASSISTANT | UNION COLLEGE DEPARTMENT OF MATHEMATICS

MTH 102 - Calculus 2: Integral Calculus Winter 2018

MTH 101 - Calculus 1: Differential Calculus Autumn 2017

COMMUNITY OUTREACH

STUDENT REPRESENTATIVE

UNION COLLEGE COMMITTEE ON LGBTQ+ AFFAIRS

April 2016 - June 2018 | Schenectady, NY

CHAPTER PRESIDENT

UNION COLLEGE SOCIETY OF PHYSICS STUDENTS

January 2015 - June 2018 | Schenectady, NY

TREASURER & PUBLIC EDUCATOR

UNION COLLEGE - UNION PRIDE

October 2014 - June 2018 | Schenectady, NY

SECRETARY & OUTREACH COORDINATOR

UNION COLLEGE - VIRTUAL U

October 2014 - June 2017 | Schenectady, NY

ACHIEVEMENTS AND FELLOWSHIPS

FELLOWSHIPS

Department of Energy Computational Science Graduate Fellowship 2019

AWARDS

George H. Catlin (1867) Prize 2018

Martin Terry Resch Prize 2018

Professor Frank Titus Memorial Prize in Physics 2018

Dean's List 2015, 2016, 2017, 2018

James Henry Turnbull (1929) Prize 2016

SOCIETIES

Omicron Delta Kappa Honor Society 2017

Phi Beta Kappa Honor Society 2017

Pi Mu Epsilon Honor Society 2017

Sigma Pi Sigma Honor Society 2017

AFFILIATIONS

American Mathematical Society

American Physical Society

Society for Advancement of Chicanos/Hispanics and Native Americans in Science

Alpha Phi Omega

Society of Physics Students

TALKS, WORKSHOPS, AND POSTER PRESENTATIONS

STATISTICAL ANALYSIS OF RICHTMYER-MESHKOV INSTABILITIES

Los Alamos 2018 Computational Physics Summer Workshop

PERSISTENT HOMOLOGY OF BUCKYBALL® CONFIGURATIONS

2018 Union College Steinmetz Day

THE DYNAMICS OF EVERYDAY FLUID FLOWS

2018 Union College Steinmetz Day

INTEGRATING FLUID DYNAMICS INTO THE UNDERGRADUATE CURRICULUM

2018 APS March Meeting

GENERALIZATIONS OF COLLATZ FUNCTIONS

Union College Undergraduate Math Seminar Series

INTRODUCTION TO LATEX: GENERAL USE AND RESUME WRITING

Winter 2018, Union College

GENERALIZATIONS OF COLLATZ FUNCTIONS TO GEOMETRIC ALGEBRAS

2017 APS New York State Sectional Autumn Meeting

ALLY TRAINER TRAINING: HOW TO EFFECTIVELY TEACH AND ENGAGE THE GREATER CAMPUS COMMUNITY

Autumn 2017, Union College

GENERALIZATIONS OF COLLATZ FUNCTIONS TO GEOMETRIC ALGEBRAS

2017 SACNAS

INTRODUCTION TO LATEX: GENERAL USE AND STEM WRITING

Autumn 2017, Union College

COLLATZ FUNCTIONS IN THE GAUSSIAN AND EISENSTEIN INTEGERS

2017 CSU Channel Islands REU Seminar Series

INTRODUCTION TO MATHEMATICA: THE BEST CLASSROOM CALCULATOR

Spring 2017, Union College

HURRICANE LINKS

2017 Union College Steinmetz Day

ALLY TRAINING: HOW TO BE AN EFFECTIVE ALLY TO THE LGBTQIA+ COMMUNITY

Spring 2017, Union College

HURRICANE LINKS

2017 Hudson River Undergraduate Math Conference

DEVELOPMENT OF A QUANTUM OPTICAL SETUP FOR SINGLE PHOTON EXPERIMENTS

2017 APS March Meeting

ALLY TRAINING: HOW TO BE AN EFFECTIVE ALLY TO THE LGBTQIA+ COMMUNITY

Autumn 2016, Union College

PHASE TRANSITIONS OF NANO-CONFINED ALCOHOLS

2016 Union College Steinmetz Day

PHASE TRANSITIONS OF NANO-CONFINED ALCOHOLS

2016 APS March Meeting

ALLY TRAINING: HOW TO BE AN EFFECTIVE ALLY TO THE LGBTQIA+ COMMUNITY

Winter 2016, Union College

MELTING BEHAVIOR OF NANO-CONFINED ALCOHOLS

2015 Union College Summer Research Seminar Series

SKILLS

COMPUTER SOFTWARE AND PROGRAMMING

Microsoft Excel, PowerPoint, and Word.

FORTRAN 95, MATLAB, Python, and Wolfram Mathematica.

LABORATORY MACHINES

Differential Scanning Calorimeter, and Optical Table.

LANGUAGES

English [Native] and Spanish [Proficient].