Xinran Yu

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Education

University of Illinois at Urbana-Champaign, Illinois   2017–present
Ph.D. in Mathematics
MS in Mathematics, May 2019

University of Liverpool, Liverpool, United Kingdom   2015–2017
BSc in Mathematics (with Honors), June 2017
Thesis: *Analytic Continuation and Riemann Surfaces.* Supervisor: Dr. Jon Woolf.

Xi'an Jiaotong-Liverpool University, Suzhou, China   2013–2015
BSc in Applied Mathematics, June 2017

Teaching & Mentoring

Teaching Assistant, *University of Illinois at Urbana-Champaign*   2019–Present
· Teaching Calculus II (MATH231, Spring 2021)
· Tutored undergraduate level Differential Equation course (MATH 285, Fall 2020).
· Graded for courses including Abstract Algebra and Algebraic Topology (MATH417, 418, 442, 525).

Graduate Team Leader at Illinois Geometry Lab, *University of Illinois at Urbana-Champaign*   Fall 2019
Faculty mentor: Katelyn Leisman.
Project: *Simulating Multi-Soliton Solutions to NLS and KdV and Studying Interactions*
· Our team focused on the nonlinear Schrödinger equation (NLS) with nonzero boundary condition (NZBC) and
  studied the exact solution of a one-soliton solutions. We compared the solution of those with ZBC ones, and used
  Python to generate figures and animations for the solution.
· Duty − Held weekly discussions with student and supervised on presentations, poster and final report.
        − Provided Python and LaTeX support to student participants.

Honors & Awards

Wills Prize in Mathematics, *University of Liverpool*   July 2017
Special honor in the examination for the degree of bachelor of science with honors.

IMA Prize, *University of Liverpool*   July 2017
Outstanding performance in the final year, offered by the Institute of Mathematics and its Applications

University Academic Achievement Award, *Xi'an Jiaotong-Liverpool University*   2014–2015
Top 10% of the program.

Skills

Python & R
· Attended PI4 Bootcamp and did a project regarding goodreads book analysis.
· Simulated solutions of a Nonlinear Schrödinger Equation and generated graphics for the solutions.

Language English(fluent), Japanese and German (intermediate)

Services & Enrichment

PI4 Computational Bootcamp, *University of Illinois at Urbana Champaign* June 2020
Foucsed on Python and R for data science applications and did a project regarding goodreads book analysis.

Staff-Student Liaison Committee Member, *University of Liverpool* 2016–2017
Worked as a course representative. Offered student perspective on the Mathematics department and contributed to improvements of the department.