

XIAOTONG “DAWSON” YANG

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Education

University of Illinois at Chicago, Chicago, IL 2023 – Present
Doctor of Philosophy in Mathematics (in progress)

University of Notre Dame, Notre Dame, IN Class of 2023
Bachelor of Science in Mathematics
Minors: Actuarial Science, Musical Theatre

Research

Undergraduate Thesis, University of Notre Dame 2022 – 2023
Asymptotic fluctuations of the standard random walk, advisor: Liviu I. Nicolaescu

Member, Proof Assistant Student Research Group Jun. 2022– Aug. 2022

- Learned and practiced propositional logic in Lean
- Collaborated in creating a logical operation generator (<https://sites.nd.edu/math-problem-generator/>)

Qualifications

Exam P, Society of Actuaries January 2021
Exam FM, Society of Actuaries August 2021
Grade 8 in Piano Performance, Associated Board of the Royal Schools of Music (ABRSM)
Grade 5 in Music Theory, ABRSM

Experience

Teaching Assistant, UIC Aug. 2023 – Present

- Led discussion sessions for undergraduates, along with grading and proctoring responsibilities

Spring 2024: Math 125 Elementary Linear Algebra for Business
Fall 2023: Math 180 Calculus I

Actuarial Intern, RenaissanceRe Jun. 2022 – Jul. 2022

- Learned and practiced the procedures of insurance and reinsurance
- Practiced actuarial pricing workbench, exposure management, underwriting and claims processes
- Presented research on social inflation

Summer Consulting Intern, Publicis Sports & Entertainment (remote) May 2021 – Jul. 2021

- Participated in data gathering and monthly analysis of KFC Gaming
- Investigated customer engagement and impressions through use of social media platforms

Member, ND Student International Business Council (SIBC) Aug. 2019 – May 2022
Project Leader, Uber Project | Spring 2022

- Led a freshman team on lane health analysis and application development for Uber Freight

Project Leader, Cardinal Health Project | Fall 2021

- Led a team on predictive analysis and machine learning using Tableau and Alteryx

Member, Salesforce Project | Spring 2021

- Worked on data application and processing through Salesforce

Member, Deloitte Project | Fall 2020

- Provided technology solutions for Brey's, offer performance indicators for customer behaviors

Member, Bain & Company Project | Summer 2020

- Participated in a consulting project on Disney Plus and the impact of COVID-19 on SVoD industry

Member, BDO Project | Spring 2020

- Participated in a case study on machine learning & blockchain technology for accounting firms

Academic Division Representative, Club Coordination Council (CCC) Oct. 2020 – Apr. 2022

- Supervised club registrations and activities, reviewed funding applications, held office hours

Community Service

Volunteer, South Bend Center for the Homeless 2019 – 2023

Piano Tutor, Shanghai Children's School 2016 – 2019

Skills & Interests

Language: English (fluent), Mandarin Chinese (native)

Technology: Microsoft Word, PowerPoint, Excel, Python, Tableau, Alteryx