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# Chi Huynh

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## Education

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Fall 2017 - Spring 2022 (expected)	Ph.D in Mathematics <b>University of Illinois at Urbana-Champaign, IL</b>
Fall 2017 - Spring 2019 (expected)	Master in Mathematics <b>University of Illinois at Urbana-Champaign, IL</b>
Fall 2013 - Spring 2017	Bachelor of Science in Applied Mathematics, Minor in French <b>Georgia Institute of Technology, Atlanta, GA</b> GPA: 3.97/4.00 Graduate with Highest Honor

## Undergraduate Research Experiences

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Spring 2015 - June 2017	<i>Georgia Institute of Technology, School of Mathematics</i> <ul style="list-style-type: none"><li>• Topic: Meander enumeration and sampling</li><li>• Advisor: Professor Christine Heitsch</li></ul>
Summer 2016	<i>Williams College, SMALL REU</i> <ul style="list-style-type: none"><li>• Research topics: Erdős' Distinct Distances problem, Benford's Law and Generalized Zeckendorf Decompositions.</li><li>• Williams College Summer Research Conference organizing committee member</li><li>• Advisors: Professor Steven Miller and Professor Eyvindur Palsson</li></ul>

## Publications and Preprints

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1. **"Existence of Bounded Path for any Two Arbitrary Perfect Matchings of order  $n$ "** (With Christine E. Heitsch and Greg Johnston). In preparation.
2. **"The Inverse Gamma Distribution and Benford's Law"** (With Rebecca F. Durst, Adam Lott, Steven J. Miller, Eyvindur A. Palsson, Wouter Touw and Gert Vriend). arXiv:1609.04106. In preparation.
3. **"Classification of Crescent Configurations"** (With Rebecca F. Durst, Max Hlavacek, Steven J. Miller and Eyvindur A. Palsson). arXiv:1610.07836. Revised and resubmitted.
4. **"Summand minimality and asymptotic convergence of generalized Zeckendorf decompositions"** (With Katherine Cordwell, Max Hlavacek, Carsten Peterson, Steven J. Miller, Eyvindur A. Palsson and Yen Nhi Truong Vu). arXiv:1608.08764. Appeared in Research in Number Theory, December 2018, 4:43.

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## Teaching and Work Experiences

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Fall 2018 - Spring 2019 | *Merit Program Graduate Teaching Assistant - UIUC Department of Mathematics*

- The Merit Program is a challenging program for a select group of undergraduates. The program targets students with high potential who are interested in the areas of science, mathematics and engineering. Students from underrepresented groups are especially encouraged to join the program.
- Responsibilities include: preparing bi-weekly worksheets, facilitating group-work and discussion, holding weekly tutoring hours, grading exams and homeworks as well as communicating with students on courseworks.
- Classes taught: MATH 231 - Calculus II, MATH 347 - Fundamental of Mathematics.

Fall 2017 - Spring 2018 | *Graduate Teaching Assistant - UIUC Department of Mathematics*

- Responsibilities include: leading bi-weekly discussions, holding weekly tutoring hours, grading exams and homeworks as well as communicating with students on courseworks.
- Classes taught: MATH 231 - Calculus II, MATH 241 - Calculus III.

Spring 2017 | *Grader - Georgia Tech School of Mathematics*

Grade bi-weekly homeworks and give feedback on the students' performance in MATH 4107 - Abstract Algebra I

Fall 2016 | *Head Teaching Assistant - Georgia Tech School of Mathematics*

Manage and write solutions to online homework problems for MATH 1553 - Intro to Linear Algebra

Fall 2014 - Spring 2016 | *Teaching Assistant - Georgia Tech School of Mathematics*

- Responsibilities include: teaching a one-hour math recitation twice a week to 30 students, holding weekly office hours, grading exams and homeworks as well as communicating with students on courseworks.
- Classes taught: Calculus II, Calculus III, Intro to Discrete Mathematics, Integral Calculus.

Summer 2015 | *Student Assistant - Georgia Tech Language in Business and Technology Study Abroad Program*

Responsibilities include: management of the roster and other official documents, communication between the professors and participating students.

Fall 2013 - Spring 2014 | *Intern - Writing and Communication Program, Georgia Tech School of Literature, Media and Communication*

Responsibilities include: creating and managing publicity materials as well as instructional materials for the Brittain Fellows.

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## Awards and Honors

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- Spring 2017 *Oustanding Math Undergraduate Award - Georgia Tech School of Mathematics*  
Fall 2016 *Georgia Tech Nomination, AWM Alice T. Schafer Prize*  
Fall 2016 *Georgia Tech PURA Undergraduate Research Stipend Award* (\$1500 for the semester)  
2013 - 2017 *Dean's List* (every semester)  
2013 - 2017 *Robert and Lizanne A. Milton International Student Scholarship* (more than \$200,000/4 years)

## Workshops and Conferences

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- March 29th - 31st 2019 | *Geometric and Harmonic Analysis 2019: a Conference for Graduate Students* - University of Connecticut, Storrs, CT
- July 16th - 26th 2018 | *2018 Northwestern Summer School in Probability* - Northwestern University, Evanston, IL
- Jan 4th - 7th 2017 | *Joint Math Meeting 2017* - Atlanta, GA  
Presentations:
  - *"Classification of Crescent Configurations on Four and Five Points"* (with Rebecca F. Durst and Max Hlavacek) - AMS-MAA-SIAM Special Session on Research in Mathematics by Undergraduates and Students in Post-Baccalaureate Programs, III
  - *"On Summand Minimality of Generalized Zeckendorf Decompositions"* (with Carsten Peterson and Yen Nhi Truong Vu) - AMS Session for Contributed Papers on Undergraduate Research, II
- Oct 6th - 9th 2016 | *Integers Conference* - University of West Georgia, Carrollton, GA  
Presentation: "Classification of Crescent Configurations on Four and Five Points"
- August 19th - 22nd 2016 | *Young Mathematicians Conference* - Ohio State University  
Presentations:
  - "Classification of Crescent Configurations on Four and Five Points" (presented by Rebecca F. Durst and Max Hlavacek)
  - "On Summand Minimality of Generalized Zeckendorf Decompositions" (presented by Katherine Cordwell and Max Hlavacek)
- May 9th - 20th 2016 | *Women and Mathematics* - Institute for Advanced Studies, Princeton, NJ  
Workshop Theme: Curves, Loops and Words in Geometry

## Activities

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- Fall 2018 - Spring 2019 Organizer - AWM Graduate Student Colloquium  
Fall 2017, Spring 2018 and Fall 2018 Organizing Committee Member and Facilitator - AWM Sonia Math Day

## Skills

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- Programming languages: Python, JAVA  
Softwares:  $\LaTeX$ , Microsoft Office, Mathematica, GeoGebra  
Languages: Vietnamese (native), English (advanced), French (intermediate)