

# Huy Huynh

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## CONTACT INFORMATION

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## RESEARCH INTERESTS

Multinomial maximum with increasing number of classes, central limit theorem for multinomial distribution with infinite dimension and biological diversity measurement.

## EDUCATION

### **Georgia Institute of Technology**, Atlanta, Georgia USA

Ph.D. Candidate, Mathematics. Expected graduation date: August 2012

- Dissertation Topic: "Asymptotic Distribution of the Multinomial Maximum with an Increasing Number of Classes and Applications to Biological Diversity"
- Advisor: Christian Houdré

M.S., Statistics, December 2009. GPA: 3.50/4.00

### **Kennesaw State University (KSU)**, Atlanta, Georgia USA

B.S., Mathematics, May, 2006. GPA: 4.00/4.00

### **Georgia Perimeter College (GPC)**, Atlanta, Georgia USA

A.S., Computer Science, December, 2004. GPA: 4.00/4.00

## HONORS AND AWARDS

Georgia Tech "CETL/BP Outstanding Graduate Teaching Assistant Award", 2010

- The award is presented by the Center for the Enhancement of Teaching and Learning (CETL) at Georgia Tech and is the only institute-wide award for Teaching Assistants symbolizing Georgia Techs commitment to promoting exemplary teaching.

Clendenin Graduate Fellow, 2010

- A prestigious scholarship offered at KSU that seeks to support outstanding individuals interested in earning or currently pursuing a master's or doctoral degree in an accredited educational institution.

KSU Outstanding Senior in the Department of Mathematics and Statistics, 2006

## ACADEMIC EXPERIENCE

### **Georgia Institute of Technology**, Atlanta, Georgia USA

#### *Lead Instructor*

**May 2009- present**

Sole instructor responsible for writing and delivering all lectures, creating all exams and assigning final grades. Instructed from 30 to 135 students and managed from 2 to 4 teaching assistants for each class. Courses taught include:

- Math 1501: Calculus I.
- Math 1502: Calculus II and Linear Algebra.
- Math 1711: Finite Mathematics.
- Math 2401: Calculus III.
- Math 3215: Probability and Statistics.
- Math 3770: Statistics and Its Application.

#### *Head Teaching Assistant*

**January - May, 2009**

Duties included shared administrative responsibilities with faculty instructor, fielding of all student inquiries, and oversight of 4 graduate student teaching assistants. Course taught includes

- Math 2403: Differential Equation.

*Graduate Teaching Assistant*

**August 2006 - December 2008**

Instructed two recitation sections each semester with 30-40 students in each section. Duties included solving exercises, holding office hours and grading exams, quizzes and assignments. Courses taught include

- Math 1501: Calculus I.
- Math 1502: Calculus II and Linear Algebra.
- Math 2403: Differential Equations.

**Kennesaw State University, Atlanta, Georgia USA**

*Math tutor and grader*

**January 2005 - May 2006**

- Duties included one-to-one tutoring of College Algebra, PreCalculus, Calculus I,II, and III, Differential Equations, Analysis and Algebra classes; graded exams and assignments for Calculus III.
- Member of the Georgia Tutoring Association, represented KSU at the Tutoring Conference held in Macon, spring 2005.

**Georgia Perimeter College, Atlanta, Georgia USA**

*Math tutor*

**August 2002 - December 2004**

- Duties included one-to-one tutoring of College Algebra, PreCalculus, Calculus I,II, and III, Differential Equations.
- Member of the Georgia Tutoring Association, represented GPC at the Tutoring Conference held in Macon, spring 2003.

PAPERS IN  
PREPARATION

Houdré, C., H. Huynh, and L. Peng. Asymptotic Distribution of Multinomial Maximum with an Increasing Number of Classes.

PRESENTATIONS

Math Talk, Kennesaw State University, April 2010. *The Asymptotics of Longest Increasing Subsequence for Finite Alphabets.*

Southeast SIAM student conference, Georgia Institute of Technology, March 2010. *Simulation Study of Longest Increasing Subsequence for Finite Alphabets.*

SIAM student seminar, Georgia Institute of Technology, November 2009. *Longest Increasing Subsequence for Finite Alphabets.*

Math student seminar, Georgia Institute of Technology, March 2009. *Longest Increasing Subsequence for Finite Alphabets- The uniform case.*

PROFESSIONAL  
EXPERIENCE

**Georgia Tech Investment Committee Student Run Endowment, Atlanta, Georgia USA**

*Quant Analyst*

**December 2011 - present**

The Investment Committee manages the endowment of the Georgia Tech Student Foundation. At roughly \$770,000, it is the largest student run endowment in the nation.

Responsibilities: Establish an educational program about options trading for the Investment Committee. Create optimal strategies for trading stocks paring with options. Analyze statistics and develop mathematical models used to make decisions regarding risk management, investments and pricing

*Sector Analyst*

**January 2010 - December 2011**

Responsibilities: Report weekly news on sector allocation; give presentations on the sector and make recommendation on the sector allocation; recruit and help new members research new companies in the sector.

- Fixed Income: accounts for 9% of the total portfolio.
- Technology: accounts for 11% of the total portfolio.
- Healthcare: accounts for 6% of the total portfolio.

SKILLS

Statistical Packages: R ; some experience with SAS.  
Mathematical Packages: MatLab and Mathematica.  
Languages: Python.  
Applications: Microsoft Offices.  
Operating Systems: Unix/Linux, Windows.  
Strong trading skills specializing in options trading.

LEADERSHIP AND SERVICES

*(the Leadership profile document is available upon request)*

Student Representative, Georgia Institute of Technology, School of Mathematics, academic years 2009-2010 and 2010-2011.

Graduate Student Board of Governors, Georgia Institute of Technology, academic year 2011-2012.

Co-organizer for Graduate Student Probability Conference, Georgia Institute of Technology, May 2011 and May 2012

Organizer of Lead TA seminar, Georgia Institute of Technology, School of Mathematics, summer 2010.

Co-organizer of Research Horizons seminar, Georgia Institute of Technology, School of Mathematics, spring 2010.

Co-organizer of Southeast SIAM (Society for Industrial and Applied Mathematics) Student conference, held in Georgia Institute of Technology, School of Mathematics in March 2010.

Experienced TA Fellow, International Graduate Student Orientation, Georgia Institute of Technology, School of Mathematics, August 2008.

Panelist, Orientation to Teaching at Georgia Tech: A Workshop for Temporary Part-Time Faculty, CETLs Part-time Faculty Orientation, January 2011

Panelist, International TA Panel Event, CETLs International TA Orientation 2010, August 2010.

Volunteer, High School Math Competition, Georgia Tech, February 2007 and 2010.

President of Math Club in GPC Dunwoody Campus in 2003-2004.

International Peer Assistant, GPC Dunwoody campus, 2003-2004.

HOBBIES

Singing karaoke, reading investment and options trading books, traveling, watching college football, working out, playing badminton and table tennis.