



## **Prof. Bao Chau Ngo**

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### **TEACHING IN CHICAGO**

- Spring 2016: Representation theory of p-adic reductive groups [[notes](#)]
- Fall 2015: Elementary Number Theory
- Spring 2015: Introduction to Drinfeld's shtuka
- Winter 2014: Geometry of the Hitchin fibration
- Spring 2013: Algebraic Number Theory
- Spring 2012: Algebraic Number Theory
- Spring 2011: Automorphic forms on  $GL(2)$

### **PREPRINTS**

- PCMI Utah Lectures: Perverse sheaves and fundamental lemmas [[PCMI.pdf](#)]
- with S. Cheng: On a conjecture of Braverman and Kazhdan [[BKGLn.pdf](#)]

### **RECENT PUBLICATIONS**

- with A. Bouthier and Y. Sakellaridis: On the formal arc space of a reductive monoid [[BNY.pdf](#)]

- with Le Hung and Ho: Average size of 2-Selmer groups of elliptic curves over function fields [[bcq.pdf](#)]
- On a certain sum of L-functions [[PS.pdf](#)]
- with Frenkel : Geometrization of the trace formula [[geom.pdf](#)]
- with Frenkel and Langlands : Formule des traces et functorialité : le début d'un programme [[quebec.pdf](#)]
- with Heinloth and Yun : Kloosterman sheaves for reductive groups [[Kloosterman.pdf](#)]
- ICM report : Endoscopy theory of automorphic forms [[ICM.pdf](#)]
- Le lemme fondamental pour les algèbres de Lie [[LF.pdf](#)]
- [more](#)

## **SELECTED PRESENTATIONS**

- Leonardo Da Vinci Lecture 2013 : Arithmetic of certain integrable systems [[Milan.pdf](#)]
- ICM in Hyderabad 2010 : Endoscopy theory of automorphic forms [[ICM2010-talk.pdf](#)]