

# Minsuk Chang

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## Research Interests

Understanding and expanding learning capabilities of ours and machine's by using techniques in interactive systems (HCI) and statistical inferences (ML) on large scale interaction data with naturally crowdsourced instructions.

## Education

- Korea Advanced Institute of Science and Technology (KAIST)**, Daejeon, South Korea 2014 Mar -  
PhD in Computer Science, Advisor: Juho Kim
- Rutgers, The State University of New Jersey**, New Brunswick, NJ, USA 2012 - 2014  
MSc in Statistics
- KAIST Business School, Graduate School of Finance**, Seoul, South Korea 2009 - 2011  
MSc in Finance with specialization in Financial Engineering, Advisor: Jangkoo Kang  
Thesis Title: An Empirical Study on the Existence of Momentum Profits in Asian Stock Markets  
- 2011 Best Thesis Award
- Simon Graduate School of Business, University of Rochester**, Rochester, NY, USA 2010  
MSc in Finance - Dual Degree Program with KAIST Business School
- Korea Advanced Institute of Science and Technology (KAIST)**, Daejeon, South Korea 2003 - 2008  
BSc in Computer Science

## Publication

- Minsuk Chang**, Leonore V. Guillain, Hyeungshik Jung, Vivian M. Hare, Juho Kim, and Maneesh Agrawala. "RecipeScope: An Interactive Tool for Analyzing Cooking Instructions at Scale" Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, 2018
- Minsuk, Chang** Vivian M. Hare, Juho Kim, and Maneesh Agrawala. "RecipeScope: Mining and Analyzing Diverse Processes in Cooking Recipes." In Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems, 2017

## Employment

- Adobe Research**, Seattle, WA, USA 2018 Jun - Sept  
Summer PhD Intern, Creative Intelligence Lab  
- Researching on novel interaction techniques for video interfaces.  
- Researching on voice user interactions for learning with how-to videos.
- Coastal Management LLC**, New York, NY, USA 2012 - 2013  
Primary Role: Quant Research  
- Researching, modeling and developing alpha generation strategies for arbitrage trade (US Equity)  
- Researching trading signals in statistical arbitrage and index arbitrage models, high-mid frequency models.
- KAIST Artificial Intelligence and Pattern Recognition Lab**, Daejeon, South Korea 2008  
Undergraduate Research Intern - Advisor: Professor Jin-Hyung Kim  
Topics in Pattern Recognition for Motion Pictures (Live Video Stream)  
Designed and implemented a real-time program that reads the video input of a canoe race and outputs race result.  
Project sponsored by the Korea Canoe Federation. Languages Used: C/C++, OpenGL
- KAIST Artificial Intelligence and Pattern Recognition Lab**, Daejeon, South Korea 2007  
Undergraduate Research Intern - Advisor: Professor Kee-Eung Kim  
Topics in Multiple View Geometry in Computer Vision, Pattern Recognition  
Designed and implemented algorithms that recognizes features points in images and detects specific objects in multiple images. Languages Used: Matlab, C/C++, OpenGL

## Teaching

- Korea Advanced Institute of Science and Technology (KAIST)**, Daejeon, South Korea 2015 – 2018  
Head Teaching Assistant  
- CS101 Introduction to Programming
- Rutgers, The State University of New Jersey**, New Brunswick, NJ, USA 2012 - 2012  
Teaching Assistant, Financial Statistics and Risk Management Program  
- FSRM588 Financial Data Mining  
- FSRM587 Advanced Simulations Methods for Finance

## Academic Services

### **Program Committee (Meta-Review)**

CHI 2019 LBW

### **Reviewer**

CHI 2017-2019

CSCW 2018

UIST 2017-2018

### **Student Volunteer**

CHI 2017

UIST 2017, 2018