

# Minsuk Chang

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## Research Interests

Developing user centered techniques for mining and modeling context in large-scale web data to create novel learning opportunities in the wild.

## Education

<b>Korea Advanced Institute of Science and Technology (KAIST)</b> , Daejeon, South Korea	2014 Mar -
PhD in Computer Science, Advisor: Juho Kim	
<b>Rutgers, The State University of New Jersey</b> , New Brunswick, NJ, USA	2012 - 2014
MSc in Statistics	
<b>KAIST Business School, Graduate School of Finance</b> , 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	
<b>Simon Graduate School of Business, University of Rochester</b> , Rochester, NY, USA	2010
MSc in Finance - Dual Degree Program with KAIST Business School	
<b>Korea Advanced Institute of Science and Technology (KAIST)</b> , Daejeon, South Korea	2003 - 2008
BSc in Computer Science	

## Selected Publications

Hyoungwook Jin, **Minsuk Chang**, Juho Kim. "SolveDeep: A System for Supporting Subgoal Learning in Online Math Problem Solving" Proceedings of the SIGCHI Conference Extended Abstracts on Human Factors in Computing Systems, 2019. To appear.

**Minsuk Chang**, Anh Truong, Oliver Wang, Maneesh Agrawala, Juho Kim. "*How to Design Voice Based Navigation for How-To Videos*" Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, 2019. To appear.

**Minsuk Chang**, Leonore V. Guillain, Hyeunghshik Jung, Vivian M. Hare, Juho Kim, and Maneesh Agrawala. "*RecipeScape: 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. "*RecipeScape: 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

<b>Autodesk Research, Toronto, ON, Canada</b>	2018 Nov -
User Interface Research Intern, User Interface Group	
- Investigating techniques for modeling the higher-level skills associated with feature-rich software applications.	
- Building systems and interfaces for fostering skill development at scale in the wild.	
<b>Adobe Research, Seattle, WA, USA</b>	2018 Jun - Sept
Summer PhD Intern, Creative Intelligence Lab	
- Building novel interaction techniques for video interfaces.	
- Understanding and designing 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.
- 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.

## 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, 2018, 2019  
 CSCW 2018  
 UIST 2017, 2018  
 MobileHCI 2019

**Student Volunteer**  
 CHI 2017  
 UIST 2017, 2018