# Minsuk Chang

minsuk@minsukchang.com | minsukchang.com

## 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

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| **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

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| **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 | |

## 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, Hyeungshik 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

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| **Autodesk Research,** Toronto, ON, Canada | 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.

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| **Adobe Research,** Seattle, WA, USA | 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