Minsuk Chang

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Research Interests

Building interfaces to understand and expand 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 tutorials and 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 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	2009 - 2011
Simon Graduate School of Business, University of Rochester, Rochester, NY, USA MSc in Finance - Dual Degree Program with KAIST Business School	2010
Korea Advanced Institute of Science and Technology (KAIST) , Daejeon, South Korea BSc in Computer Science	2003 - 2008

Selected Publications

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

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.

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

Student Volunteer

CHI 2017 UIST 2017, 2018