

Minsuk Chang

minsuk@minsukchang.com | minsukchang.com

CURRENT POSITION

Naver

Research Scientist, AI LAB

Technical Leader, Computational Interaction, CLOVA

- setting up HCI x AI research ecosystem
- developing novel interaction techniques using computational models of human cognition
 - modeling and building conversational interaction
 - making massive scale language models like GPT-3 more usable
 - modeling users and interfaces as computationally rational agents

Seongnam, South Korea

Sept, 2020 – Present

Dec, 2020 – Present

EDUCATION

Korea Advanced Institute of Science and Technology

PhD in Computer Science, Advisor: Juho Kim

Thesis Title: Mining Sequential Knowledge for Interaction Design

Daejeon, South Korea

2014-2020

Rutgers, The State University of New Jersey

MSc in Statistics

New Brunswick, NJ, USA

2012-2014

KAIST Business School, Graduate School of Finance

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

Seoul, South Korea

2009-2011

Simon Graduate School of Business, University of Rochester

MSc in Finance - Dual Degree Program with KAIST Business School

Rochester, NY, USA

2010

Korea Advanced Institute of Science and Technology

BSc in Computer Science

Daejeon, South Korea

2003-2008

PREVIOUS EXPERIENCES

Microsoft Research + AI

Research Intern, Information and Data Sciences Group

- Investigating techniques for recovering from conversational interaction failures
- Designing and building dialogue state managers to support conversational interfaces for exploratory information retrieval tasks

Redmond, WA, USA

June – Sept, 2019

Autodesk Research

User Interface Research Intern, User Interface Group

- Investigating techniques for modeling user demonstrations to capture semantic subgoals
- Building data-driven interfaces by utilizing different streams of user interaction trace

Toronto, ON, Canada

Nov, 2018 – Apr, 2019

Adobe Research

Summer PhD Intern, Creative Intelligence Lab

- Building novel conversational interaction techniques for video interfaces
- Understanding and designing voice user interactions for learning with how-to videos

Seattle, WA, USA

Jun – Sept, 2018

Costal Management LLC

Quant Research, Props Trading

- 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.

New York, NY, USA

2012 – 2014

SELECTED PUBLICATIONS

Minsuk Chang, Mina Huh, and Juho Kim, *RubySlippers: Supporting Content-based Voice Navigation for How-to Videos*, In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, 2021.

Seungwon Do, **Minsuk Chang**, and Byungjoo Lee, *A Simulation Model of Intermittently Controlled Point-and-Click Behavior*, In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, 2021.

Minsuk Chang, Ben Lafreniere, Juho Kim, George Fitzmaurice, Tovi Grossman, “*Workflow Graphs: A Computational Model of Collective Task Strategies for 3D Design Software*”, *Proceedings of the 45th Graphics Interface Conference on Proceedings of Graphics Interface 2020*. Canadian Human-Computer Communications Society, 2020.

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.

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

SERVICES

Organizing Committee

- SIGCHI Operations Committee
- UIST 2021-2022 Publicity Co-Chair
- CHI 2021-2022 Video Co-Chair
- ISS 2019 Video Chair

Program Committee

- UIST 2021
- CSCW 2021
- Viz Meets AI 2021
- WWW 2020, 2021
- GI 2020
- CHI 2019 LBW, 2021 SRC

Reviewer

- CHI 2017, 2018, 2019, 2020, 2020 LBW, 2021, 2021 LBW
- CSCW 2018, 2019, 2020 (Outstanding Review)
- UIST 2017, 2018, 2020
- MobileHCI 2019
- IMWUT 2020 (Outstanding Review)

Student Volunteer

- CHI 2017
- UIST 2017, 2018
- ICML 2020