

# Minsuk Chang

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## CURRENT POSITION

### Google Deepmind

*Research Scientist*

- Generative simulations
- Skill learning

Seattle, WA, USA  
May, 2024 – Present

## PREVIOUS EXPERIENCES

### Google Research

*Research Scientist*

- Alignable multiagent systems
- Interactive simulations

Seattle, WA, USA  
May, 2022 – May, 2024

### KAIST Graduate School of AI

*Adjunct Professor*

Daejeon, South Korea  
Oct, 2021 – July 2024

### Naver

*Research Scientist, Technical Leader, Naver AI Lab*

*Technical Leader, Computational Interaction, Naver Clova*

Seongnam, South Korea  
Sept, 2020 – Apr, 2022  
Dec, 2020 – Aug, 2021

### Microsoft Research + AI

*Research Intern, Information and Data Sciences Group*

- Investigating techniques for detecting and recovering from conversational interaction failures

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

## EDUCATION

### Korea Advanced Institute of Science and Technology

*PhD in Computer Science, Advisor: Juho Kim*

*Thesis Title: Mining Sequential Knowledge for Interaction Design*

- *2021 Outstanding Thesis Award*

Daejeon, South Korea  
2014-2021

### 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

**SELECTED PUBLICATIONS** (please visit [my google scholar page](#) for the most updated publications list.)

Kahng, Minsuk, Ian Tenney, Mahima Pushkarna, Michael Xieyang Liu, James Wexler, Emily Reif, Krystal Kallarackal, **Minsuk Chang**, Michael Terry, and Lucas Dixon. *LLM Comparator: Interactive Analysis of Side-by-Side Evaluation of Large Language Models*. IEEE Transactions on Visualization and Computer Graphics (2024).

Jesse Zhang, Jiahui Zhang, Karl Pertsch, Ziyi Liu, Xiang Ren, **Minsuk Chang**, Shao-Hua Sun, and Joseph J. Lim, *Bootstrap Your Own Skills: Learning to Solve New Tasks with Large Language Model Guidance*, Conference on Robot Learning 2023 **\*\*oral\*\***

**Minsuk Chang**, Stefania Druga, Alexander J. Fiannaca, Pedro Vergani, Chinmay Kulkarni, Carrie J Cai, and Michael Terry, *The Prompt Artists*, In Proceedings of the 15th Conference on Creativity and Cognition 2023 **\*\*honorable mention\*\***

John Yoon Young Chung, Wooseok Kim, Kang Min Yoo, Hwaran Lee, Eytan Adar, **Minsuk Chang**, *TaleBrush: Sketching Stories with Generative Pretrained Language Models*, In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, 2022.

Hee-Seung Moon, Seungwon Do, Wonjae Kim, Jiwon Seo, **Minsuk Chang**, and Byungjoo Lee, *Speeding up Inference with User Simulators through Policy Modulation*, In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, 2022.

Sungdong Kim, **Minsuk Chang**, and Sang-Woo Lee, *NeuralWOZ: Learning to Collect Task-Oriented Dialogue via Model-Based Simulation*, In ACL 2021 **\*\*oral\*\***.

**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. **\*\*honorable mention\*\***

**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 Committe**

- SIGCHI Operations Committee (2020-present)
- Neurips 2024 Concordia Contest
- UIST 2021, 2022 Publicity Co-Chair
- CHI 2021 Video Capture Co-Chair
- ISS 2019 Video Chair

### **Program Committe**

- CoCoMARL Workshop 2024 (RLC)
- CHI 2022, 2023, 2024(+awards committee), 2025
- UIST 2021, 2022, 2023(+awards committee), 2024(+awards committee)
- CSCW 2021
- HCOMP 2021
- Viz Meets AI 2021, 2022
- WWW 2020, 2021, 2022
- GI 2020
- CHI 2019 LBW, 2021 SRC

### **Reviewer**

- ICLR 2025
- Behavioral ML Workshop 2024 (NeurIPS)
- ACL 2024 (ARR)
- ICML 2024 Workshops
- IUI 2022
- CHI 2017, 2018, 2019, 2020, 2020 LBW, 2021, 2021 LBW
- CSCW 2018, 2019, 2020
- UIST 2017, 2018, 2020
- MobileHCI 2019
- IMWUT 2020

### **Student Volunteer**

- CHI 2017
- UIST 2017, 2018
- ICML 2020

### **Invited Talks and Panels**

- June 2022: Invited talk at Manila ACM SIGCHI Chapter
- Septemehr 2021: Invited talk at Kangwon National University, Department of Computer Science and Engineering
- Septemehr 2021: Invited talk at SungKyunKwan University (SKKU) College of Computing and Informatics in Sepetember
- August 2021 : Invited talk at POSTECH, Computer Science and Engineering
- July 2021 : Invited on the industry panel for CUI 2021 conference to discuss the future of conversational interfaces.
- Mar 2021 : Invited talk on data-driven interfaces at Yonsei University, Department of Computer Science
- Aug 2020 : Invited on the panel for AI for Video-Based Learning Workshop at L@S 2020.
- Oct 2019 : Invited Talk at Berkeley Institute of Design - Fall 2019 Seminar Series
- Oct 2019 : Invited Talk at MIT CSAIL HCI Seminar Series 2019
- May 2019 : Invited to give a talk on data-driven techniques for user task modeling @ Institute of Basic Science