Dongyun Han

Ph.D. Student, Computer Science Department,
North Carolina Agricultural & Technical State University

Education

- **North Carolina Agricultural & Technical State University** — NC, USA
  Ph.D. student in Computer Science Dept. — *Jan. 2020 - Present*
- **Ulsan National Institute of Science and Technology (UNIST)** — Ulsan, Korea
  M.S. in Computer Science Dept. — *March 2018 - Feb. 2020*
- **Ulsan National Institute of Science and Technology (UNIST)** — Ulsan, Korea
  B.S. in Electrical and Computer Engineering Dept. — *March 2010 - Feb. 2018*

Research Interesting & Programming Skills

- **Research Interesting**: Interactive Visual Analytics, and Virtual and Artificial Reality (VR & AR)
- **Languages**: Python, Javascript, HTML, CSS/SASS, NoSQL, C#
- **Technologies and Frameworks**: Flask, Keras, React, Express, jQuery, Unity

Research Experience

- **HisVA: A Visual Analytics System for Learning History** — Jan. 2019 - Present
  Supervisor : Prof. Sung-Ahn Ko, UNIST
  - This project is aimed to support students to learn history. HisVA is a visualization system providing visual interfaces (e.g., map, timeline, and list of events) helping students explore various historical events and analyze them.
  - I am the first author in this project, and I've gained experience working with multidisciplinary researchers major in cognitive science, education, and history.
  - Preparing to submit the paper.
- **GUIComp: A GUI Design Assistant with Real-Time, Multi-Faceted Feedback** — June 2018 - Dec. 2019
  Supervisor : Prof. Sung-Ahn Ko, UNIST
  - This project is aimed to support novice designers in designing Mobile GUI process. GUIComp provides instant feedback on user's current design, such as visual complexity scores, end-users' attention heatmap, and recommended designs.
  - I am the third author, and I implemented the front-end of the system.
  - It is accepted by ACM CHI 2020.
- **AirScope: Visualizing Fine Dusts in AR** — June 2017 - Dec. 2017
  Supervisor : Prof. Sung-Ahn Ko and Prof. Young-Woo Park, UNIST
  - In this project, we built AirScope, a prototype AR device using Arduino UNO. It is aimed to intuitively show how much fine dusts there are in the air around users.
  - I've gained experience collaborating with researchers from the Design perspective.
  - It earned Creative Award at HCI Korea '18

Publications

- Chunggi Lee, Sanghoon Kim, **Dongyun Han**, Hongjun Yang, Young-Woo Park, Bum Chul Kwon, Sungahn Ko*
  GUIComp: A GUI Design Assistant with Real-Time, Multi-Faceted Feedback, ACM Conference on Human Factors in Computing Systems (CHI), 2020

Accomplishments

- **Scholarship** - National Scholarship for Graduate student from Korean Government, 2018 - 2020
- **Creative Award** - design work presentation at HCI KOREA '18, 2018
- **Patent** - Patent number 18-83657, 'Visualization Apparatus for Displaying Fine Dust', 2018
- **Scholarship** - National Scholarship for Undergraduate student from Korean Government, 2010 - 2013, 2015, 2017

Other

- Mailing list moderator, IEEE Virtual Reality (VR), Jan. 2020 - present