

# Han-Chih Kuo

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**INFORMATION** No.18, Siyuan St., Zhongzheng Dist., Taipei City 100, Taiwan  
**RESEARCH INTERESTS** Human-computer interaction, tangible user interfaces, augmented reality, rapid prototyping tools  
**EDUCATION** **National Taiwan University**, Taipei, Taiwan 2013 – 2016  
M.B.A. in Information Management  
Thesis: *Designing Tangible Interactions with Portable Physical Constraints*  
Advisor: Dr. Bing-Yu Chen

**National Taiwan University**, Taipei, Taiwan 2009 – 2013  
B.B.A. in Information Management

## PUBLICATIONS **Conference Papers**

- **Han-Chih Kuo**, Rong-Hao Liang, Long-Fei Lin, Bing-Yu Chen. GaussMarbles: Spherical Magnetic Tangibles for Interacting with Portable Physical Constraints. *Proc. ACM CHI 2016*, 4228–4232.
- Rong-Hao Liang, **Han-Chih Kuo**, Bing-Yu Chen. GaussRFID: Reinventing Physical Toys with Magnetic RFID Kits. *Proc. ACM CHI 2016*, 4233–4237.
- Rong-Hao Liang, **Han-Chih Kuo**, Liwei Chan, De-Nian Yang, Bing-Yu Chen. GaussStones: Shielded Magnetic Tangibles for Multi-Token Interactions on Portable Displays. *Proc. ACM UIST 2014*, 365–372.
- Rong-Hao Liang, Liwei Chan, Hung-Yu Tseng, **Han-Chih Kuo**, Da-Yuan Huang, De-Nian Yang, Bing-Yu Chen. GaussBricks: Magnetic Building Blocks for Constructive Tangible Interactions on Portable Displays. *Proc. ACM CHI 2014*, 3153–3162. [**Best Paper Honorable Mention Award**]

## **Demo, Workshop Papers**

- Rong-Hao Liang, **Han-Chih Kuo**, Miguel Bruns Alonso, Bing-Yu Chen. GaussStudio: Designing Seamless Tangible Interactions on Portable Displays. *ACM TEI 2016 Studio Workshop*, 786–789.
- Rong-Hao Liang, **Han-Chih Kuo**, Bing-Yu Chen. GaussStarter: Prototyping Analog Hall-Sensor Grids with Breadboards. *ACM UIST 2015 Demo*.
- Rong-Hao Liang, Liwei Chan, Hung-Yu Tseng, **Han-Chih Kuo**, Da-Yuan Huang, De-Nian Yang, Bing-Yu Chen. GaussBricks: Magnetic Building Blocks for Constructive Tangible Interactions on Portable Displays. *ACM CHI 2014 Interactivity Demo & Video Showcase*.

## **Patents**

- Bing-Yu Chen, Rong-Hao Liang, Liwei Chan, Hung-Yu Tseng, **Han-Chih Kuo**, Da-Yuan Huang. Geometric structure analyzing method, geometric structure analyzing system, and computer program product. *U.S. patent*, US20150279096.

**AWARDS** **ACM CHI 2014 Best Paper Honorable Mention Award** 2014  
GaussBricks: Magnetic Building Blocks for Constructive Tangible Interactions on Portable Displays.  
**1st Prize, 4th MOST FITI Entrepreneur Competition**, Taiwan 2014  
GaussToys.  
**1st Prize, 8th Acer Long-Term Entrepreneur Competition**, Taiwan 2014  
GaussToys.  
**1st Prize and Best Creative Award, HackNTU Hackathon**, Taiwan 2014  
Genki Cushion.

**EXPERIENCE** **Co-Founder** Mar. 2015 – present  
GaussToys Inc., Taiwan  
**Teaching Assistant** Sep. 2013 – Jan. 2014, Sep. 2014 – Jan. 2015  
Computer Organization and Structure, National Taiwan University  
Instructor: Dr. Bing-Yu Chen  
**Web Service Committee** Mar. 2014 – Jul. 2014  
OpenHCI, Taiwan  
**Lecturer and Teaching Assistant** Feb. 2014 – Jun. 2014  
Cloud Computing-Based Services Design and Programming, National Taiwan University  
Instructor: Dr. Mike Y. Chen

**SKILLS** **Programming Language:** C/C++, Java, JavaScript, Ruby, Swift  
**Framework & Library:** Processing, OpenFrameworks, Unity3D, OpenGL, OpenCV  
**Mechanical Fabrication:** Laser Cutting, 3D Printing