

# CHANG HEE LEE PhD

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21th October 1987  
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## EDUCATION

### **Royal College of Art (RCA), London, UK**

**PhD** 2014 - 2018

Innovation Design Engineering, School of Design  
Supervisors & Advisor: Dr. Dan Lockton, Dr. John Stevens and Professor Ashley Hall

Doctoral Thesis: Synaesthesia Materialisation: Approaches to Applying Synaesthesia as a Provocation for Generating Creative Ideas within the Context of Design

### **Goldsmiths, University of London, UK**

**MA** 2012 - 2013

Design Critical Practice, School of Design

### **Central Academy of Fine Arts (中央美术学院), Beijing, China**

**BA** 2005 - 2009

Industrial Design, School of Design

### **Beijing Huijia Private School, Beijing, China**

**High School** 2003 - 2005

One year early graduation / grade skipping

## ACADEMIC EXPERIENCE

### **Royal College of Art (RCA), London, UK** *October 2018 - Present*

#### **Innovation Design Engineering (IDE)**

#### **Tutor (equivalent to US Assistant Professor)**

- Lead and support second year IDE programme.
- Organise lectures, weekly tutorial spreadsheets and events.
- Direct and curate exhibition spaces for the programme.
- Assess students' projects and thesis.
- Develop departmental research and continue personal research in synaesthesia, HCI, creativity and experience design to discover new meanings in interaction and communications.
- Support design and technical aspects for students' projects.
- Run and coach project collaboration between RCA and CERN in Geneva.

### **Royal College of Art (RCA), London, UK** *August 2016 - March 2017*

#### **Innovation Design Engineering (IDE)**

#### **Visiting Lecturer (equivalent to US Adjunct Faculty)**

- Give and organise weekly tutorials to postgraduate students.
- Support design and technical aspects for students' projects.
- Create films for project brief.
- Set up exhibition space.
- Record student activities.

## GUEST TEACHING

**Carnegie Mellon University, Pittsburgh, USA** *April 2017*  
**Guest Instructor, School of Design**

—Syllabus: Spring 2017: Environments Studio IV: The Invisible

(Workshop: creating robots using synaesthesia as provocation)

## TALKS

**Harvard University, Cambridge, Massachusetts, USA** *October 2017*  
Guest speaker for the Twelfth National American Synaesthesia Association Conference.

**Institute of Philosophy, University of London, UK** *May 2017*  
Symposium contributor for the Open Senses Festival.

**Carnegie Mellon University, Pittsburgh, USA** *April 2017*  
Synaesthesia as inspiration

**Royal College of Art, London, UK** *December 2016*  
Synaesthesia as provocation

**University College London (UCL), London, UK** *September 2016*  
Guest speaker for workstations, Science has No Borders

**University College London (UCL), London, UK** *August 2016*  
Guest speaker for a film night – Film: Like Water for Chocolate

**Royal College of Art & University of Oxford, UK** *July 2016*  
Symposium director and presenter for the joint symposium between the Royal College of Art and the University of Oxford - Crossing Over: The Art & Science of Multisensory Perception.

**Future Leader Conference, Seoul, South Korea** *October 2015*  
Conference keynote speaker

**Camden Arts Centre & Kingsgate Workshop Trusts, London, UK** *June- July 2015*  
Symposium keynote speaker for the The Lab Project: Multisensory Perception and Synaesthesia

## PUBLICATIONS

Lee, C.H, Lockton, D, Stevens, J, Wang, S.J, and Ahn, S.H. (2019). Synaesthetic-Translation Tool: Synaesthesia as an Interactive Material for Ideation, **ACM CHI'19**, Glasgow. DOI: <https://doi.org/10.1145/3290607.3312849>

Yana, X.Y, Lee, C.H, Kumarc, P.A and Wang, S.J (2019). Infrastructure-Integrated Photovoltaic (IIPV): how LCA based innovation and design can help ensure its sustainability? **Journal of Applied Energy**, Under Peer Review

Balint, T and Lee, C.H, (2018). Pillow Talk—Curating Delight for Astronauts, **69th International Astronautical Congress (IAC)**, Bremen, Germany.

Lee, C.H., Lockton, D and Kim, J.E, (2018). Exploring Cognitive Playfulness Through Zero Interactions, **ACM SIGCHI DIS'18**, Hong Kong. DOI: <https://doi.org/10.1145/3197391.3205413>

Lee, C.H. and Lockton, D, (2018). Silent Scene, **ACM Interactions'18 Demo**, 25, 6, 10-13. DOI: <https://doi.org/10.1145/3279993>

Lee, C.H., (2018). Synaesthesia Materialisation: Approaches to Applying Synaesthesia as a Provocation for Generating Creative Ideas within the Context of Design, **PhD Thesis**, Royal College of Art, School of Design, Innovation Design Engineering Research, UK.

Lockton, D., Ricketts, D, Chowdhury, S.A and Lee, C.H., (2017). Exploring Qualitative Displays and Interfaces, **ACM CHI'17**, Denver, CO, USA. DOI: <http://dx.doi.org/10.1145/3027063.3053165>

Ferrarello, L., Hall, A, Kann, M and Lee, C.H., (2017). Collaborating Design Risk, **International Association of Societies of Design Research (IASDR)**, Ohio, USA.

Lee, C.H., (2017). Three Studies of Synaesthesia, **ACM Interactions '17 Demo**, 24, 3, 8-11. DOI: <https://doi.org/10.1145/3068337>

## AWARDS / NOMINATIONS / HONORS

Nominated by Overseas Korean Foundation (OKF), Seoul, South Korea 2016  
**Korean Future Leader**

Nominated by UK Design Council, London, UK 2015  
**70 Ones To Watch - 70 emerging design talent that will shape UK's design future.**

Nominated by Daum Media, Seoul, South Korea 2015  
**Today's Figure**

Awarded by International Design Award (IDA), Los Angeles, USA 2014  
**Silver Prize**

Awarded by A'Design Award, Milan, Italy 2013  
**Bronze A'Design Award**

## EXHIBITIONS

The Center SF, San Francisco, USA 2018  
**Synaesthesia: Art, Love & Science**

Rebecca Hossack Gallery, London, UK 2017  
**Open Senses Festival**

Lloyd's Register Foundation Headquarter, London, UK 2017  
**Design For Safety at Sea**

University College London (UCL), London, UK 2016  
**Doing It Together Science (DITOs)**

Royal College of Art (RCA), London, UK 2016  
**Crossing Over: The Art & Science of Multisensory Perception**

Royal College of Art (RCA), London, UK 2016  
**Amnesty of Rejection Redux**

Royal College of Art (RCA), London, UK 2016  
**Work in Progress Show**

Henry Moore Gallery, Royal College of Art (RCA), London, UK 2015  
**Work in Progress Show**

Former BBC Headquarter, London, UK 2013  
**Touch Art Fair**

Hoxton Gallery, London, UK 2013  
**London Design Festival**

Mood Museum of Design, Milan, Italy 2013  
**A'Design Award**

Mumbai, India 2013  
**Product Design Days**

Gdansk, Poland 2013  
**About Design Expo**

Central Academy of Fine Arts, Beijing, China 2009  
**Graduation Exhibition**

## **PORTFOLIOS & PRESS & NEWS**

<https://www.changheelee.com>

## **SKILLS**

### **Embedded Systems:**

Atmel AVR, PCB Design, Arduino IDE, etc.

### **Fabrication:**

3D Printing, CNC, Laster Cutting, Carpentry, etc.

### **Software:**

Rhino 3D, 3ds Max, V-Ray, Photoshop, Wondershare Filmora, etc.

## LANGUAGES

**English**  
Fluent

**Chinese**  
Fluent

**Korean**  
Fluent

## OTHER EXPERIENCE & ACTIVITIES

**Swimming indoor marathon for people with diabetes**  
22miles (equivalent of swimming length from the UK to France), UK  
*February - May 2018*

**Librarian**  
Big Tree Library, Seoul, South Korea  
*November 2011 - June 2012*

**Civilian Document Analyst Assistant**  
Mandatory Military Service, Seoul, South Korea  
*October 2009 - October 2011*

## REFERENCES

**Dr. Dan Lockton**—Chair of Design Studies at Carnegie Mellon University School of Design.  
Relationship: Doctoral Supervisor  
Contact Address: [danlockton@cmu.edu](mailto:danlockton@cmu.edu)

**Professor. Ashley Hall**—Head of Research in Innovation Design Engineering at the Royal College of Art.  
Relationship: Doctoral Advisor  
Contact Address: [ashley.hall@rca.ac.uk](mailto:ashley.hall@rca.ac.uk)

**Dr. John Stevens**—Senior Tutor in Innovation Design Engineering at the Royal College of Art.  
Relationship: Doctoral Supervisor  
Contact Address: [john.stevens@rca.ac.uk](mailto:john.stevens@rca.ac.uk)