

# Jieliang (Rodger) Luo

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3309 Phelps Hall, Santa Barbara, California, 93016-6065

## Education

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**PhD in Media Arts and Technology**, University of California, Santa Barbara, 09.2014-Present

Committee: Prof. George Legrady (Chair), Prof. Tobias Hollerer, and Prof. Yon Visell

Focus: Autonomous Cameras, Machine Learning, Robotics, Computational Aesthetics, and Data Visualization

*Recent Activities:*

Jieliang Luo, *et al.* **Intuitive Diagnostics for Deep Visuomotor Policies**. Qualcomm Innovation Fellowship 2018, abstract accepted, proceed on full proposal.

Jieliang Luo, *et al.* **Reinforcement Learning for Cyber-Physical Safety Engineering**. *Cyber-Physical Systems and Security*. Springer, to appear 2018.

Jieliang Luo. **Abstract Reality**. 2017 SIGGRAPH Asia Art Gallery. Bangkok, Thailand. November 27-30, 2017

**MA in Emergent Digital Practice**, University of Denver, 09.2010-03.2013

**BE in Digital Media Technology**, Beijing University of Posts & Telecommunications, 09.2006-06.2010

## Research Experience

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**Experimental Visualization Lab, UCSB**, Santa Barbara, CA, 01.2015-Present

Researcher & Lecturer | Prof. George Legrady

- Developing an autonomous multiple robotic cameras platform to study collaborations and compositions in computational photography
- Developed generative tools to explore the intersection of computational aesthetics, computational geometry, and data visualization
- Teaching a course about data visualization and another course about computational photography & robotic cameras

**Koç Lab, UCSB**, Santa Barbara, CA, 03.2017-Present

Researcher | Prof. Cetin Koç

- Developing a Python-based library to implement deep reinforcement learning on drones & ground vehicles
- Developing methods to visually interpret deep reinforcement learning policies

**InTouch Health**, Santa Barbara, CA, 06.2015-09.2015

Software Engineer

- Researched on robot-human interaction, task allocation, control, and path planning
- Developed software prototypes for cross-platform communication

**Digital Media Lab, Beijing Univ. of Posts & Telecoms**, Beijing, China, 09.2007-06.2010

Undergraduate Researcher | Prof. Xueming Li

- Directed award-winning experimental animations and films
- Researched on 2.5D reconstruction from computer vision point of view

## Publications

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Jieliang Luo, Sam Green and Çetin Kaya Koç. **Reinforcement Learning for Cyber-Physical Safety Engineering.** *Cyber-Physical Systems and Security*. Springer, to appear 2018.

Jieliang Luo. **Abstract Reality.** 2017 SIGGRAPH Asia Art Gallery. Bangkok, Thailand. November 27-30, 2017

Jieliang Luo, Donghao Ren, and George Legrady. **Anamorphic Fluid: Exploring Spatial Organization and Movements of Images in A Simulated Fluid Environment.** The 10th International Symposium on Visual Information Communication and Interaction (VINCI 2017). Bangkok, Thailand. August 14-16, 2017.

Sam Green, Jieliang Luo, and Çetin Kaya Koç. **Reinforcement Learning for Cyber-Physical Safety Engineering.** Cyber-Physical Security Education Workshop. Paris, France. July 17-19, 2017.

## Exhibitions

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**Autonomous Robotic Interactive Installation,** MAT End of Year Show, Santa Barbara, CA, 2017

- Multi-media installation in collaboration w/ George Legrady

**Computational Abstracts in 3D,** MAT End of Year Show, Santa Barbara, CA, 2017

- Generative Animation

**Anamorphic Fluid II,** Currents New Media Festival, Santa Fe, NM, 2017

- Interactive Video Installation in collaboration w/ George Legrady and Donghao Ren

**Fragments,** MAT End of Year Show, Santa Barbara CA, 2016

- Multi-view Video Installation in collaboration w/ Keehong Youn

**Anamorphic Fluid,** Dongdaemun Design Plaza Museum, Seoul, Korea, 2016

- Interactive Video Installation in collaboration w/ George Legrady and Donghao Ren

**Voro Space,** California Nano Systems Institute, Santa Barbara CA, 2016

- Digital Prints

**Anamorphic Fluid,** Fellows of Contemporary Art, Los Angeles CA, 2016

- Interactive Video Installation in collaboration w/ George Legrady and Donghao Ren

**Anamorphic Fluid,** Edward Cella Art & Architecture, Los Angeles CA, 2015

- Interactive Video Installation in collaboration w/ George Legrady and Donghao Ren

**Art of Science Exhibition,** UC Santa Barbara Library, Santa Barbara CA, 2015

- *Voro Space*: Digital Prints

**Touch History,** Holocaust Memorial Social Action Site, Denver CO, 2012

- Interactive Video Installation

## Awards/Grants

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**International Student Award,** UC Santa Barbara, 2017

**Graduate Fellowship,** UC Santa Barbara, 2017

**Robert W. Deutsch Foundation Fellowship,** Deutsch Foundation, 2016

**Integrative Graduate Education and Research Traineeship Fellowship,** UC Santa Barbara , 2016

**The University Student Aid Program Fellowship,** UC Santa Barbara, 2014

**Graduate Assistant Scholarship,** University of Denver, 2012

**Dean's Scholarship,** University of Denver, 2011

**Bronze Prize by Video Design,** American National Security Awareness Media Contest, 2011

**Nomination of the Best Picture,** Beijing International Student Film Festival, 2010

## Selected Talks/Teachings

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**Visualizing Information | 10 weeks courses**, UCSB, Santa Barbara, CA, 2018

- Lecturer

**Abstract Reality | 30 minutes talk**, Central China Normal University, Wuhan, China, 2017

**Abstract Reality | 30 minutes talk**, SIGGRAPH Asia 2017, Bangkok, Thailand, 2017

**Digital Media and Arts: Visual & Data & Structure & 3D | 2 hours talk**, Beijing University of Technology, Beijing, China, 2017

- In collaboration with Chris Coleman, Laleh Mehran, and Michael Salter

**Geometrical Extension | 3 weeks workshop**, Central China Normal University, Wuhan, China, 2017

**Optical Digital Culture | 10 weeks course**, UCSB, Santa Barbara, CA, 2017

- Co-teaching w/ George Legrady

**From Street Photography to Computational Aesthetics | 3 weeks workshop**, Central China Normal University, Wuhan, China, 2016

**Making Visible the Invisible DataVis at the Seattle Public Library | 1 hour talk**, UCLA, Los Angeles CA, 2016

- In collaboration w/ George Legrady

**Visualizing Information | 10 weeks course**, UCSB, Santa Barbara, CA, 2016

- In collaboration w/ George Legrady

**Data Visualization | 3 weeks workshop**, Central China Normal University, Wuhan, China, 2015

**Optical Digital Culture | 1 hour lecture**, UCSB, Santa Barbara CA, 2015

**My Observation of American Culture | 1 hour talk**, Beijing Language University, Beijing, China, 2013

**2.5D Poetics | 10 weeks course**, University of Denver, Denver, CO, 2012

- In collaboration w/ Chris Coleman

## Entrepreneurial Experience

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**Creative Development | Developing Creativity**, Multiple Cities, China, 09.2012-Present

Founder

- Organizing international media artists to give workshops, talks, and exhibitions in China

**Snowy Owl International Media Ltd. Co**, Beijing, China, 07.2012-08.2014

Co-Founder

- Produced commercial ads to technology companies, like OPPO Electronics Corp

## Technical Skills

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Python | Keras | TensorFlow | Processing | openFrameworks | Raspberry Pi | Arduino | Maya | After Effects