Lok Chan

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Education

2018 **Doctor of Philosophy, Philosophy**, *Duke University*, Durham, North Carolina.
Supervisor: Kevin Hoover

2012 **Masters of Arts, Philosophy**, *San Francisco State University*, San Francisco, *California*.

2009 **Bachelor of Arts, Philosophy**, *California State University*, Sacramento, *California*.

2009 **Bachelor of Music, Classical Guitar Performance**, *California State University*, Sacramento, *California*.

Experience

Research and Technical

2018-present **Postdoctoral Associate**, *Department of Population Health Science*, Duke University.
Project: a web-based a decision tool for DCIS based on state of the art risk modeling and data visualization technology
- Designing and implementing an interactive data visualization user interface using D3.js and React.js
- Philosophical research in the philosophy of medicine, especially with respect to clinical evidence
- Carry out empirical studies to verify the effectiveness of different aspects of the decision tool

2018-Present **Postdoctoral Associate**, *Social Science Research Institute*, Duke University.
Project: investigating ethical issues in artificial intelligence
- Design and implement a web application that collects data on user's moral intuitions about kidney transplants
- Participate in the empirical and mathematical development of modeling of user moral perferences
- Conceptualize and implement ways in which artificial intelligence can aid or improve moral reasoning

2017-2018 **Graduate Team Lead**, *Bass Connections*, Duke University.
Project: How to Build Ethics into Robust Artificial Intelligence

2016–2018 **Research Assistant**, *Department of Surgery*, Duke University.
Project: Visualizing Higher Order Uncertainty

Teaching

2019 **Teaching Assistant**, *Data Logic, Visualization, and Storytelling*, Masters Programs in Interdisciplinary Data Science at Duke University.

2015–2017	**Instructor**, *Logic*, Duke University.
	Instructor of record for Phil 150, Introduction to Formal Logic.
	○ Class consisted primarily of undergraduate students in computer science and engineering
	○ Designed and implemented a 'conditionally self-paced' course
	○ Topics covered: Sentence logic, Predicate Logic, Natural Deduction, Semantic Tableaux, Beginning Metalogic
	○ Built a custom web portal that administered personalized and adaptive online tests and assignments
	– Language and libraries used: D3.js, Express.js, Node.js, MongoDB, and PostgreSQL
2010–2015	**Teaching Assistant**, *Philosophy*, Duke University and San Francisco State University.
	○ Duties included leading discussion, grading assignments and papers, lecturing
	○ Classes: Chinese Philosophy, Ethics, Logic and Computability, Metalogic, Philosophical Logic, Philosophy of Economics
2011-2012	**Explainer**, *The Exploratorium*, San Francisco.
	○ Carried out demonstrations in scientific education
	○ Created educational programs for K-12 students
2008–2011	**Music Instructor**, *Private*, San Francisco.
	○ Provided personal instruction for classical guitar.

Academic Awards and Fellowships

2017–2018	**Bass Instructional Fellowship**, *Online Apprentice*, Center of Instructional Technology.
2017	**Graduate Student Training Enhancement Grant**, *Recipient*, Interdisciplinary Studies at Duke.
2017	**Professional Development Grant**, *Recipient*, The Graduate School.
2016–2017	**Lab Fellow**, *The Lab of Digital Knowledge*, Franklin Humanities Institute.
2015	**Summer Research Fellowship**, *Recipient*, The Graduate School.

Languages

English	Proficient
Cantonese	Native
Traditional Chinese	Proficient

Computer skills

Languages	Python, Java, Javascript	Statisical	R, R Markdown
Web Frontend	d3.js, React.js, Redux	Web Backend	Django, Express, Flask, Node.js
Database	PostgreSQL, MongoDB		