

# Catherine Kim

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## EDUCATION

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### **University of Nottingham**

*M.Sc. in Computational Neuroscience, Cognition, and AI (Distinction)*

*Nottingham, UK*

*Sep. 2020 – Sep. 2021*

### **Boston College**

*BA in Psychology, Minor in Philosophy*

- GPA: 3.71/4.0 (*Summa cum laude*)

*Boston, MA*

*Aug. 2015 – May 2019*

## PROFESSIONAL EXPERIENCES

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### **Lab Manager at Radulescu Lab, Icahn School of Medicine at Mount Sinai**

*New York, NY*

- Developed Virtual Reality eye-tracking tools to collect gaze patterns and investigate computational models of decision-making and learning in clinical population. *Sep. 2022 –*

### **Research Specialist at Hasson Lab, Princeton Neuroscience Institute**

*Princeton, NJ*

- Project (PI: Uri Hasson): Thinking ahead: prediction in context as a keystone of language in humans and machines (Goldstein et al., 2020) *June 2019 – Sep. 2020*
- Developed Natural Language Processing (NLP) models to investigate encoding of high-level semantic meanings from naturalistic and high-resolution electrocorticography (ECoG) dataset collected from epileptic patients.
- Assisted in the ECoG pre-processing pipeline (FieldTrip)

### **Research Assistant at Morality Lab, Boston College**

*Chestnut Hill, MA*

- Projects (PI: Dr. Liane Young): *Nov. 2016- May 2019*
  - Investigating role of theory mind on how ingroup bias shapes the wrongness judgments of different moral violations. (Dungan & Young, 2019)
  - Examining the relationship between social distance and action possibilities in the moral domain
  - Testing the necessity of the right temporal parietal junction on metaethical judgments (Theriault et al., 2020)
- Involved in planning and conducting experimental protocols, alongside creating stimuli (Qualtrics survey), recruiting participants, and analyzing neuroimaging data (SPM, AFNI).

### **Research Assistant at Implicit Social Cognition Lab, Harvard University**

*Cambridge, MA*

- Projects (PI: Mahzarin Banaji): *Nov. 2016 – May 2019*
  - Relationship between the Implicit Association Test and intergroup behavior: A meta-analysis (Kurdi et al., 2019)
  - Examining the effects of mere exposure on implicit attitudes of Japanese characters
- Assisted in conducting a meta-analysis on the predictive validity of the IAT in the domain of intergroup discrimination (across 217 studies using data from 36071 participants)

### **Internship at Team IDEA, Midas IT**

Seoul, South Korea  
May 2016 - Aug. 2016

- Created Passion-Level Scale used to measure employee's passion status.

## **PUBLICATIONS**

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- Goldstein, A., Zada, A., Buchnik, E., Schain, M., Price, A., Aubrey, B., Nastase, S., S., Feder, A., Emmanuel, D., Cohen, Alon., Jansen, A., Gazula, H., Choe, G., Rao, A., **Kim, C.**, Friedman, D., Hassidim, Avinatan., Brenner, M., Norman, Ken., Hasson, U. (2020). Thinking ahead: prediction in context as a keystone of language in humans and machines. *bioRxiv*.

## **FELLOWSHIPS & AWARDS**

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- Undergraduate Research Fellowship, Boston College (\$12,000) *Summer, Fall, Spring 2018*
- Undergraduate Research Fellowship, Boston College (\$8,500) *Fall, Spring 2017*
- Undergraduate Research Fellowship, Boston College (\$4,000). *Spring 2016*
- Research-paper Competition: Effects of Cognitive- Behavioral Therapy on Internet Addiction (3<sup>rd</sup> place) *Dec. 2015*
- Autism Conference hosted by Ministry of Health and Welfare at Catholic University (Best Speaker Award) *Nov. 2015*
- Korea Game Application Competition: Presidential Award for raising awareness of Autism (\$1,000) *July 2014*

## **CERTIFICATIONS**

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- MRI Scanner Operator Certification, McGovern Institute for Brain Research at MIT
- MRI Scanner Operator Certification, CBS Neuroimaging Facility at Harvard
- American Heart Association CPR certification

## **SKILLS**

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- **Hardware:** MRI, TMS, ECoG
- **Data Analysis:** Proficient in Python, MATLAB, R, SPSS
- **Programming:** Python, MATLAB, R, first experiences in C#
- **Languages:** English (native), Korean (native), Chinese (functionally)
- **Other Software:** Microsoft Office Suite (Word, Excel, PowerPoint)

## **EXTRACURRICULAR ACTIVITIES**

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- Volunteer Internship at Women's Hope, Victory Program *Aug. 2018 – May 2019*
- Diploma of Associated Board of the Royal School of Music for Violin Performance
- Hobbies: camping, scuba diving, yoga, growing plants, watching movies