DanbeeKim Teacher | Field Neuroscientist | Author

CONTACT

danbee@alum.mit.edu www.danbeekim.org

LANGUAGES

English (fluent), Korean (intermediate), Portuguese (beginner)

COMPUTER SKILLS

Microsoft Office Suite, Illustrator, Photoshop, Premier Pro, Bonsai-Rx, Github, LATFX, Python

FABRICATION TOOLS

Epilog Helix Laser Cutter, sewing machine (standard and overlocking)

MOVEMENT ARTS

capoeira, fire spinning, musical theater

INSTRUMENTS

bass guitar, ukelele, violin, vocals

REFERENCES

available upon request

MISSION

To create spaces and curricula that empower everyone to develop modern literacies in science, technology, and the arts.

EDUCATION

2013-2020 **Doctor of Philosophy in Neuroscience**

Champalimaud Centre for the Unknown

International Neuroscience Doctoral Programme, Intelligent Systems Lab

2005-2009 SCIENTÆBACCULAUREUS

Massachusetts Institute of Technology

Brain and Cognitive Sciences

PUBLICATIONS, PERFORMANCES, AND EXHIBITS (SELECTED WORKS)

Danbee Kim. "Are cephalopods making a comeback in neuroscience?". BioTechniques. 22 Jun 2022.

Danbee Kim, Kendra Buresch, Roger Hanlon, Adam R. Kampff. "An experimental method for evoking and characterizing dynamic color patterning of cuttlefish during prey capture". *Journal of Biological Methods*, 9.2 (2022):e161. DOI: 10.14440/jbm.2022.386.

Danbee Kim. The First VIRS. London; 2020.

Danbee Kim, Adam R. Kampff. "Neuroscience Does Design: What the Brain's Architecture Can Teach Architects". Architectural Design, 90.6 (2020): 94-99. DOI: 10.1002/ad.2637.

Danbee Kim. "Why I refuse to do animal testing in my science career". Massive Science. June 18, 2018.

Danbee Kim, Gonçalo Lopes. "Does modern neuroscience really help us understand behavior?" Massive Science. Oct 3, 2017.

Pilot Data: An Aronauts EP. Music and lyrics by Danbee Kim. Perf. Danbee Kim, Xiao Xiao, and Gonçalo Lopes, 29 Sept. 2017, Francis Crick Institute Live Music Symposium, London.

Surprising Minds. Interactive installation and crowd human behaviour experiment. Installed 4 July 2017 at Sea Life Brighton, Brighton, UK. Danbee Kim, Kerry Perkins, Clive Ramble, Hazel Garnade, Gonçalo Lopes, Darío R. Quiñones, Reanna Campbell-Russo, Robb Barrett, Martyn Stopps, The EveryMind Team, Adam Kampff.

EXPERIENCE (CONTINUED ON NEXT PAGE)

since 2021 NeuroGEARS, LTD

London, UK

- Research Scientist, Outreach
 - Define the structure and scientific content of NeuroGEARS' research and outreach activities
 - Establish and nurture collaborations across traditional boundaries of expertise
 - · Provide managerial support and administrative assistance to the Director

since 2019 **NEURONAUTAS**

Lisboa, Portugal

- Organizer and Teacher
 - A hands-on neuroscience and robotics camp for 10th-grade students
 - Collaboratively developed and delivered program curriculum for in-person edition in 2019
 - Translated neuroscience curriculum into online coursework and organized online classroom experience for remote edition in 2021
 - Developed and delivered an additional short course for 2021 edition that combined neuroscience theory with speculative fiction and collective improvisational storytelling

since 2010 Appalachian Institute for Creative Learning

Mars Hill, North Carolina, USA

Teacher and Staff

- Prepare and deliver curriculum in multi-age (8-18 years old) classrooms
- Past classes: Neural Cell Diversity, Fermentation Fun, Ropework & Knots, Jugger, Quidditch

EXPERIENCE CONTINUED...

since 2005 FIRST-YEAR LEARNING COMMUNITIES, MIT

Cambridge, Massachusetts, USA

Undergraduate Teaching Fellow and Alumni mentor, Terrascope

- participated as a student in Mission 2009: The Tsunami Threat to the Pacific
- · mentored as an Undergraduate Teaching Fellow in Mission 2011: Saving the Oceans
- served as an alumni mentor since 2021

2021-2022 The Bartlett School of Architecture, UCL

London, UK

Tutor, MArch Design for Performance and Interaction

- Dissertation thesis tutor for 3 masters students
- · Contextual Theory tutor for Fall 2021 incoming cohort

2016-2019 SAINSBURY WELLCOME CENTRE FOR NEURAL CIRCUITS AND BEHAVIOUR

London, UK

Visiting Researcher, Intelligent Systems Lab

AWARDS:

- SWC Public Engagement Fund: £3,000 (Feb 2019)
- UCL Train and Engage program: £1,000 (July 2018)

EVENTS:

- "Dear Neuroscience: Touch and Proprioception", Organizer and Speaker (24 May 2019)
- 2017 Systems Seminars Annual Symposium: Cross-Species Conversations, Organizing team (21 Sept 2018)
- "Orchestrating the Brain: A collaborative workshop of musicians and neuroscientists", Organizer and Speaker (31 May 2018)

SOCIETIES AND WORKING GROUPS:

- SWC-Gatsby PhD Society, Social Chair (May 2018 May 2019)
- SWC Staff Student Consultative Committee, Student representative (Oct 2017 Oct 2018)
- SWC NC3Rs working group, Member (July 2017 July 2019)
- SWC Public Engagement Network, Member (Jan 2016 July 2019)

2005-2019 MIT MUSICAL THEATER GUILD

Cambridge, Massachusetts, USA

Member

- Corresponding Secretary (2013–2019)
- Costume Shop Manager (2007–2009)

Shows:

9 to 5, 2016: vocal director

Spring Awakening, 2015: pit orchestra (violin and guitar)

Legally Blonde, 2014: co-choreographer

Sweeney Todd, 2014: vocal director, pit orchestra (violin)

Reefer Madness, 2012: choreographer Urinetown, 2012: Ma Strong, ensemble

Hack, Punt, Tool, 2012: co-writer, choreographer

Children of Eden, 2011: vocal director, Snake

Assassins, 2011: Charles Guiteau, co-props

25th Annual Putnam County Spelling Bee, 2011: vocal director, pit orchestra (violin)

Jekyll and Hyde, 2011: co-director, choreographer

Evil Dead, 2010: Annie, master seamstress

Little Shop of Horrors, 2010: assistant choreographer

Side Show, 2009: choreographer

Bare, 2009: Kyra; program designer, master seamstress

The Mystery of Edwin Drood, 2009: Angela Prysock/Princess Puffer; costume designer

Wild Party, 2008: Kate

Pippin, 2007: Bertha, Manson Trio; co-costume designer

Cabaret, 2007: costume designer

Reefer Madness, 2007: Mae; props designer

Children of Eden, 2006: Eve; costume designer

Crazy For You, 2006: Everett Baker

Chicago, 2006: director

Urinetown, 2006: Hot Blades Harry

Star Wars: The Musical, 2005: Bail Organa, Lobot, ensemble

EXPERIENCE CONTINUED...

2011-2013 HACK, PUNT, TOOL

Co-writer

- Co-wrote script and contributed to music to create an original show about hacking culture and life at MIT
- Collaborated with MIT administration, teachers, and students to create a work that has a significant positive impact on the MIT community
- Produced by the MIT Musical Theater Guild during IAP 2012
- · Writing and music teams recorded and mastered an original cast recording, released in Sept 2012
- Released a subtitled video recording of the MIT production on YouTube in Sept 2013

2011-2012 MUSEUM OF SCIENCE

Cambridge, Massachusetts, USA

Education Associate Current Science & Technology

- developed, and performed 20-minute presentations on science and technology topics
- contacted and coordinated quest presenters
- · organized logistics for Museum events

2009-2011 HARVARD MEDICAL SCHOOL, BETH ISRAEL DEACONESS MEDICAL CENTER

Boston, Massachusetts, USA

EEG Lab Technician and Research Assistant

- organized and managed EEG lab, Psychiatry Suite of BIDMC West Campus
- designed and implemented EEG protocols written in Superlab and Presentation software
- manage subject recruitment, coordination with clinical assessments, and payment

2008-2009 DEPARTMENT OF BRAIN AND COGNITIVE SCIENCES, MIT

Cambridge, Massachusetts, USA

Undergraduate Researcher

How Expectations Can Change Perception

Higher-Level Cognition Lab: Talia Konkle, Steven Piantadosi, Rebecca Saxe

- · studied the effect of prior expectations on the perception of incongruent stimuli
- designed and coded experimental tasks in Matlab; analyzed data in R

OBSERVING CAUSAL LAWS BY TRACKING EYE MOVEMENTS

Early Childhood Cognition Lab: Elizabeth Bonawitz, Laura Schulz

- studied how young children learn to make predictions based on patterns
- tracked eye movements using Tobii Eyetracker software; analyzed data using Matlab
- studies were conducted at the Learning Lab at the Children's Museum of Boston

2005-2008 Freshmen Pre-Orientation Programs, MIT

Cambridge, Massachusetts, USA

Film Counselor, Freshmen Arts Pre-Orientation (FAP)

- participated in FAP 2005; film counselor for FAP 2006, 2007, and 2008
- organized projects and activities for the week-long program
- co-wrote, filmed, and edited counselor introduction videos and a yearly FAP video

2006-2008 Senior Haus Annual Steer Roast

Cambridge, Massachusetts, USA

Food Veep

- organized an outdoor feast for approximately 400 people
- worked with fellow veeps and MIT staff on event registration, logistics, funding, and safety
- coordinated shopping trips and the borrowed use of an industrial kitchen
- trained an apprentice and contributed to a Food Veep Bible

EDGERTON CENTER OUTREACH PROGRAM, MIT 2007

Cambridge, Massachusetts, USA

Teaching Assistant

 taught grade-school children topics in science and technology via hands-on classroom projects, including motorized Lego cars, rudimentary circuits, high speed photography, and basic chemistry