

DanbeeKim

Vigilante Intergalactic Roustabout Scholar

CONTACT

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www.danbeekim.org

LANGUAGES

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

COMPUTER SKILLS

Arduino, Bonsai, Excel,
Github, Illustrator,
L^AT_EX, Photoshop,
Premier Pro, Python,
SketchUp

FABRICATION TOOLS

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

MOVEMENT ARTS

capoeira, fire spinning,
musical theater

INSTRUMENTS

bass guitar, djembe,
violin, vocals

REFERENCES

available upon request

EDUCATION

2013-2020 **DOCTOR OF PHILOSOPHY IN NEUROSCIENCE**

International Neuroscience Doctoral Programme

Thesis advisor: Adam Kampff, Intelligent Systems Lab

Thesis title: *On the aims and methods of Field Neuroscience: Non-invasive techniques for studying nervous systems in natural settings*

Online open lab notebook: www.danbeekim.org/open-lab-notebook/

Champalimaud Centre for the Unknown

2005-2009 **SCIENTÆBACCULAUREUS**

Brain and Cognitive Sciences

Massachusetts Institute of Technology

MISSIONS

FIELD NEUROSCIENCE

To develop a framework for studying nervous systems in fully natural or wild settings by combining ethological observations with non-invasive controlled experiments.

A "SCIENCE-LITERATE" FUTURE

To imagine and work towards a future in which everyone is fluent in applying scientific methods of understanding to themselves and to the social structures in their lives.

PUBLICATIONS AND EXHIBITS

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.

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

Gonçalo Lopes, Danbee Kim. "How theater, start-up culture, and business history helped us become better neuroscientists". *Massive Science*. Oct 16, 2017.

Darío R. Quiñones, Gonçalo Lopes, Danbee Kim, Cédric Honnet, David Moratal, Adam Kampff. "HIVE Tracker: a tiny, low-cost, and scalable device for sub-millimetric 3D positioning". *Augmented Human*, 9 (2018). DOI: 10.1145/3174910.3174935.

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

EXPERIENCE

since 2017 **MASSIVE SCIENCE CONSORTIUM**

Writer

massivesci.com

since 2010 **APPALACHIAN INSTITUTE FOR CREATIVE LEARNING**

Teacher, Staff

Mars Hill, North Carolina, USA

2013-2020 **CHAMPALIMAUD CENTRE FOR THE UNKNOWN**

PhD Candidate and Researcher, Intelligent Systems Lab

Lisboa, Portugal

2016-2019 **SAINSBURY WELLCOME CENTRE FOR NEURAL CIRCUITS AND BEHAVIOUR**

Visiting Researcher, Intelligent Systems Lab

London, UK

EXPERIENCE CONTINUED...

since 2005	MIT MUSICAL THEATER GUILD Member <ul style="list-style-type: none">• Corresponding Secretary (since 2013)• 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	MIT, Cambridge, Massachusetts
2011-2013	HACK, PUNT, TOOL Co-writer <ul style="list-style-type: none">• 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	Cambridge, Massachusetts
2011-2012	MUSEUM OF SCIENCE Education Associate, Current Science & Technology <ul style="list-style-type: none">• developed, and performed 20-minute presentations on science and technology topics• contacted and coordinated guest presenters• organized logistics for Museum events	Boston, Massachusetts
2009-2011	HARVARD MEDICAL SCHOOL, BETH ISRAEL DEACONESS MEDICAL CENTER EEG Lab Technician, Research Assistant <ul style="list-style-type: none">• 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	Boston, Massachusetts

EXPERIENCE CONTINUED...

- 2009-2010 **ROFLCon** Boston, Massachusetts
Staff
- coordinated guest travel/lodging and event volunteers
 - organized event AV logistics
- 2008-2009 **DEPARTMENT OF BRAIN AND COGNITIVE SCIENCES** MIT, Cambridge, Massachusetts
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
Film Counselor for 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** MIT, Cambridge, Massachusetts
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
- 2005-2008 **TERRASCOPE** MIT, Cambridge, Massachusetts
Undergraduate Teaching Fellow, Kitchen and Snacks Coordinator
- Terrascope is a year-long freshmen seminar that examines complex real-world problems, presents potential solutions to a visiting board of experts at the end of fall term, then creates a museum exhibit during spring term.
- participated as a freshman in Mission 2009: The Tsunami Threat to the Pacific
 - mentored as an Undergraduate Teaching Fellow in Mission 2011: Saving the Oceans
 - worked within a budget to stock and maintain the Terrascope kitchen
- 2007 **EDGERTON CENTER OUTREACH PROGRAM** MIT, Cambridge, Massachusetts
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