

Dan J. Cook

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Education

Humboldt Universität zu Berlin, Germany

10/2014–10/2017

Berlin School of Mind and Brain

MSc, Cognitive Science

- Thesis on the role of language in visual & spatial cognition
- 2017 Einstein Master Award

The focus of the MSc "Brain Track" program was experimental cognitive science, including scientific computing in R and Python, and applied statistical analysis and modeling of behavioral and physiological data.

University of Central Florida, Orlando, FL.

09/2009–12/2013

Graduate Certificate, Cognitive Science

- Research on the philosophy of computational neuroscience

Eckerd College, St Petersburg, FL.

01/2002–01/2007

B.A., Philosophy, Psychology

- Research in clinical social work
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Current Work

Freelance developer

04/2017–present

My recent projects include,

- Website development @ <http://www.ohlalab.de/> (PHP, html, css, javascript)
 - Website development @ [Berlin School of Mind and Brain's Labs](#) (PHP, html, css, SQL)
 - Computer hardware configuration @ [the Berlin School of Mind and Brain Electrophysiology Lab](#)
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Computer Software

Python (advanced)

- Data analysis, machine learning – numpy, scipy
- Data Visualization – matplotlib, seaborn
- Databases - Pandas, HDF5, SQLite
- Image processing – PIL, ski-kit image
- Web Scrapping – BeautifulSoup, requests, urllib
- GUI development – Tkinter
- EEG Analysis – MNE
- Brain computer interfaces – labstreaminglayer, wyrn, pyff

R programming (advanced)

- Descriptive stats and visualization
- Regression analysis
- Cluster analysis
- Generalized linear mixed models
- Generalized estimating equations (e.g. Classification)

Other software (varies intermediate - advanced)

- Databases - SQL, HDF5, Excel
 - Microsoft Windows 7-10 OS,
 - MAC OS X 10.6-10.13
 - Git remote repository management
 - MATLAB - psychological experimentation and analysis
 - Website theme development in PHP
 - Website development in Ruby on Rails
 - HTML, CSS, JavaScript – Bootstrap, JQuery
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Previous Work

[ScienceOpen, GmbH](#)

09/2014–12/2017

Handling Editor, Peer Review Acquisitions

ScienceOpen is an online research network for sharing and evaluating scientific information. ScienceOpen aggregates Open Access articles from a variety of sources – providing a space for post-publication commentary and review. Manuscripts submitted to SO-Research are published Gold Open Access and evaluated in a fully transparent post-publication peer review. I serve as the handling editor, and I manage the open, post publication peer review process.

- Created and managed email campaigns to engage users
- Prepared monthly analytic reports of subscriber database (in R & Python)
- Created visualizations of user publication data for website deployment
- Developed web-crawlers for publisher websites (in Python)
- Created and edited compelling content for website about pages (plain-text, html, css, Javascript)
- Handling editor & peer review manager for ScienceOpen Research (ISSN: 2119-2006)
- Managed over 100 peer reviews on 63 publications in the natural sciences
- Social media management (on Youtube & Twitter)
- Creation of tutorial videos and promotion videos for users
- Worked closely with CEO and Communications Director to maximize on conversions and engage users

[Fraunhofer Institute for Telecommunications, Heinrich Hertz Institute](#)

02/2016–11/2016

[Machine Learning Department, EEG Lab,](#)

Student Research Assistant

The EEG Lab at the Fraunhofer Institute in Berlin analyzes image and video signals as they are perceived by human observers. The group develops algorithms that help to predict human image quality assessments, which are useful for the design and evaluation of new image and video presentation technologies. I was involved in a project investigating the use of EEG technology for extracting brain correlates of the human perception of video quality.

- Investigated the effect of VR devices on the quality of EEG signals for future experiments
- Prepared participants and conducted EEG experiments on visual perception
- Prepared visualizations of neural time series in MATLAB, Python & R
- Set-up computer hardware & software for brain computer interfaces
- Analyzed image and movies in Python (clustering algorithms)
- Maintained Wiki documentation for EEG Lab

Summer Study Programs Inc.

06/2012—08/2014

Director of Student Activities

Summer Study Programs Inc. was an education & travel company offering high school students an academically and socially enriching, summer education program at The Penn State University (PSU), The University of Colorado, Boulder (UC, B), Fordham University in New York City, and The Sorbonne University in Paris.

- Organized all social activities for new, first year, Fordham University, New York City summer program in 2015
- Negotiated contracts with activity, hotel and transportation vendors for Fordham and Penn State programs
- Led weekend trips with up to 6 buses, 22 staff, and 450 students at a time in Washington, DC and New York
- Acted as point of contact between parents, students, and directors of programs
- Co-managed summer staff of between 20-30 camp counselors and educators
- Recruited students from all U.S. states and Puerto Rico and Virgin Islands
- Led courses on Debate, Psychology, Expository Writing, and the History of Rock & Roll for 5 summers

Orlando Rickshaw Company,

10/2009-09/2012

Assistant Manager

- *Orlando Rickshaw Company* is a team of independent contractors and owners who provide hotel guests staying onsite at The Universal Studios, Orlando, FL with an exciting, memorable, human-powered, green-energy, novelty-transportation experience to and from their favorite locations on site. I drove for the company, and I managed the operations of 24 contractors during manager absences.

WestCare GulfCoast FL. Inc.

09/2008—08/2009

AmeriCorps State & National

Local program leader

- *WestCare GulfCoast FL. Inc* is a US national non-profit (501-k) providing human services to people suffering from a variety of health problems including homelessness, illiteracy, & substance abuse and dependence. I worked as an intake-specialist at a local site providing first-response relief to homeless drug & alcohol users. I provided editorial assistance to the nationwide Grant Coordinator for the program.

Teaching

- Debate Class Instructor
Summer Study Programs Inc.,
Pennsylvania State University, PA
07/2013—08/2013
- Psychology Class Instructor
Summer Study Programs Inc.,
University of Colorado, Boulder
06/2008—08/2008
- Debate Class Instructor
06/2006—08/2006

Summer Study Programs Inc.,
Pennsylvania State University, PA

- Debate Class Instructor
Summer Study Programs Inc.,
Pennsylvania State University, PA

06/2005—08/2005

Human Resource Training

AmeriCorps State & National at
WestCare GulfCoast FL Inc.

- Crisis interventions and risk assessment
Proactive intervention
02/2009
- Violence in the workplace
Confidentiality of patient records
12/2008
- Effects of psychiatric medications
OSHA certified first aid
Sexual harassment for employees
Confidentiality and privacy for the behavioral healthcare providers
11/2008
- Nonviolent crisis intervention
Understanding and valuing diversity
10/2008

Languages

Native English Speaker

German (level A2.1 – A2.2)

Contacts & References

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