

Dan J. Cook

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<http://www.danjcook.com/>

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

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

[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.

- Handling editor & peer review manager for *ScienceOpen Research* (ISSN: 2119-2006)
- Over 100 peer reviews acquired on 63 publications in the natural sciences
- Management of email campaigns & tracking with Google Analytics
- Prepared monthly analytic reports of social platform email-subscriber database (in R & Python)
- Developed web-crawlers for publisher websites (Python)
- Created and edited content for website (plain-text, html, css, Javascript)
- Social media management (on Youtube & Twitter)

[Fraunhofer Institute for Telecommunications, Heinrich Hertz Institute](#) [Machine Learning Department, EEG Lab,](#)

02/2016 – 11/2016

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.

- Project on EEG signal quality during Virtual Reality head-mounted device stimulation
- EEG experiments on visual perception
- Data visualization in MATLAB, Python & R
- Set-up of hardware & software for electrophysiology experiments

- Image & movie analysis in Python (clustering algorithms)
- Wiki documentation maintenance

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. I worked for the company for several summers at UC, B and PSU before taking a position in their New York office organizing the summer programs.

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

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| • 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
Summer Study Programs Inc.,
Pennsylvania State University, PA | 06/2006—08/2006 |
| • 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.

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| • Crisis interventions and risk assessment | 02/2009 |
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Proactive intervention

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

Languages

Native English Speaker

German (level A2.1 – A2.2)

Contacts & References

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Summer Study Programs, (now retired)
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