

## Dan J. Cook

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

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## Education

### Humboldt Universität zu Berlin, Germany

10/2014–10/2017

Berlin School of Mind and Brain

MSc, Cognitive Psychology

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

### 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 Employment

### Freelance developer

04/2017–present

My recent projects include,

- Website & Software development @ <http://www.ohlab.de/> (PHP, html, css javascript)
  - Electrophysiology hardware configuration @ the Berlin School of Mind and Brain
  - Admin for the Berlin School of Mind and Brain's Labs [MediaWiki](#) ((PHP, html, css, SQL))
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## Previous Research & Employment

### Fraunhofer Institute for Telecommunications, HHI

02/2016–11/2016

Image Processing & Machine Learning Department, EEG Lab,  
Berlin, Germany

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 correlations of user's 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

[ScienceOpen, GmbH](#)

09/2014–12/2017

Berlin, Germany

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)

[Summer Study Programs Inc.](#)

06/2012–08/2014

New York, New York

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

Orlando, FL.

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.

## 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, wyrm, pyff

### R programming (advanced)

- Descriptive stats and visualization
- Generalized linear mixed models
- Generalized estimating equations

### Other software (varies intermediate - advanced)

- Microsoft Windows 7-10 OS,
  - MAC OS X 10.6-10.13
  - Databases - SQL, HDF5, Excel
  - 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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## Teaching & Public Speaking

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|---|-----------------|
| • Debate Class Instructor<br>Summer Study Programs Inc.,<br>Pennsylvania State University, PA   | 07/2013—08/2013 |
| • Psychology Class Instructor<br>Summer Study Programs Inc.,<br>University of Colorado, Boulder | 06/2008—08/2008 |
| • Debate Class Instructor<br>Summer Study Programs Inc.,<br>Pennsylvania State University, PA   | 06/2006—08/2006 |
| • Debate Class Instructor<br>Summer Study Programs Inc.,<br>Pennsylvania State University, PA   | 06/2005—08/2005 |
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## General clinical & Human Resource Training

AmeriCorps State & National at  
WestCare GulfCoast FL. Inc.

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| • Crisis interventions and risk assessment<br>Proactive intervention | 02/2009 |
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- 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

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## Languages

- Native English Speaker
- German (level A2.1 – A2.2)

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## Contacts & References

### **Stephanie Dawson, PhD**

CEO,  
ScienceOpen  
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### **Mauricio Martins, Md. PhD**

Junior research group leader,  
Berlin School of Mind and Brain,  
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### **Professor Arno Villringer, Md., PhD**

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### **Kathrin Ohla, PhD**

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Group Leader,  
Junior research group leader,  
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### **Mike Sorowitz**

Partner/Director of Programs & Operations,  
Summer Study Programs, (now retired)  
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### **Howard Gossack**

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Orlando Rickshaw Company  
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### **Jeff Bedwell PhD**

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### **David Rosynsky,**

Grants Development Coordinator,  
WestCare Foundation Inc.  
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### **Nathan Andersen PhD**

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