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

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

Computer Software

Python (advanced)
- Data analysis, machine learning – numpy, scipy
- Data Visualization – matplotlib, seaborn
- Databases - Pandas, HDF5, SQLlite
- 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
- 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

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   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.

- 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

- Debate Class Instructor   07/2013—08/2013
  Summer Study Programs Inc.,
  Pennsylvania State University, PA

- Psychology Class Instructor   06/2008—08/2008
  Summer Study Programs Inc.,
  University of Colorado, Boulder

- Debate Class Instructor   06/2006—08/2006
  Summer Study Programs Inc.,
  Pennsylvania State University, PA

- Debate Class Instructor   06/2005—08/2005
  Summer Study Programs Inc.,
  Pennsylvania State University, PA

Human Resource Training
AmeriCorps State & National at
WestCare GulfCoast FL. Inc.

- Crisis interventions and risk assessment   02/2009

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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