**Dan John Cook**

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**Education**

*Master of Science, Brain-track*

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| Humboldt Universität zu Berlin, Berlin School of Mind and Brain 10/2017   * 2017 Einstein Master Award |

*Postgraduate Certification, Cognitive Science*

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| University of Central Florida, Orlando 12/2013   * President of the Cognitive Science Student Association, 2011 |

*Bachelor of Arts, Philosophy, Psychology (minor)*

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| Eckerd College, St Petersburg, FL. 12/2007   * Academic high honors, GPA 3.97 |

**Current Employment**

*Project management - Cognitive Sciences (1+ years)*

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| Helix Cognitive Computing, GmBH 02/2018—present   * Built a simulation and modeling pipeline in Python of a peer-to-peer network including transport, communication, consensus, and peer synchronization protocols * Developed consensus algorithm for a transactional database modeled as a Directed Acyclic Graph (DAG) * Developed machine learning methods for the detection of duplicate content in the distributed database * Developed machine learning methods for estimating the size of a network given the accurate number of hops from source to sink for packets detected at sink destination |

**Previous Employment**

*Computer hardware and software consultant (4 months)*

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| Berlin School of Mind and Brain EEG Lab07/2017—11/2017   * Set-up and testing of research-grade electroencelphagraphy (EEG) equipment * Set-up, testing, and model-based correction of CRT-monitor with color photometry |

*Website development (6 months)*

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| Ohla Lab for Neuroscience 06/2017—08/2017   * <http://www.ohlalab.de/> * Website theme development in PHP (Wordpress), theme development in Ruby (Jekyll)   Berlin School of Mind and Brain's Labs  08/2017—11/2017   * <https://www2.hu-berlin.de/ef-dg/mbwiki> * Website theme and content creation (MediaWiki, Php, myPhpAdmin, MySQL, Apacher Server) |

*Graduate student research assistant (9 months)*

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| Fraunhofer Institute for Telecommunications, 02/2016—11/2016  Machine Learning Department   * Conducted EEG experiments on visual perception * Analyzed time series data in MATLAB, Python & R * Researched the effects of VR devices on the quality of EEG signals * Researched the effects of different codecs for video and image perception * Analyzed image and movies in Python (clustering algorithms) * Organized computer hardware & software for brain computer interfaces |

*Content editor, Peer review manager (3+ years)*

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| ScienceOpen GmBH  *10*/2014—12/2017   * Developed Python web-crawlers * Prepared monthly analytic reports for subscribers (in R & Python). * Crearted tutorial videos for platform users * Created marketing content for future platform users * Managed over 100 peer reviews on 63 publications in the natural sciences for the journal ScienceOpen Research (ISSN: 2119-2006) * https://www.scienceopen.com |

*Director of student activities (2+ years)*

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| Summer Study Programs Inc.06/2012—08/2014   * Recruited local and international students for summer programs (sales) * Organized social activities for students (event management) * Negotiated contracts with event and transport vendors * Co-managed summer staff (between 20-30 teachers and camp counselors) * Led weekend-long trips (up to 6 buses, 22 staff, and 450 students) * Acted as point of contact between parents, students, and directors of programs (dispute handling) * Taught courses on Debate, Psychology, Expository Writing, and the History of Rock & Roll for 5 summers at Penn State University and University of Colorado, Boulder |

**Computer Software**

*Python 3.6 & 2.7 (4+ years)* *R (4+ years) Other (varies)*

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| * Objective oriented programming * Monte Carlo Simulation * Data analysis & visualization * Matrix algebra & machine learning * Time series analysis * Networks / web programming * GUI development | * Linear regression with continuous response and predictor variables * Cluster analysis with unordered and ordered sets of categories * Generalized linear mixed models for continuous and categorical response variables with continuous and/or categorical predictors | * Multiprocessing/multithreading * Message passing interface * SSH, RSA, Lamport signatures * MongoDB, HDF5 * HTML, CSS, NodeJS * Git * Ubuntu 18.04.01 * Mac OS, OS X, macOS * Windows 7-10 |

**Language**

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| English (Native) | German (A2.1 – A2.2) |

**Publications**

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| Cook, D., Martins, M., Villringer, A. (2018). How domain-specific is Merge? In Cuskley, C., Flaherty, M., Little, H., McCrohon, L., Ravignani, A., & Verhoef, T. (Eds.). *Proceedings of the 12th International Conference on the Evolution of Language*. doi: 10.12775/3991-1.016 |

**Contacts & References**

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| *Stephanie Dawson, Ph.D.*  CEO, ScienceOpen  stephanie.dawson@scienceopen.com  +49 (0) 306-0984-90277 | *Professor Arno Villringer, Md., Ph.D.*  Berlin School of Mind and Brain,  Humboldt Universität zu Berlin  villringer@cbs.mpg.de  +49 (0) 341-9940-2220 |
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