Alec Rogers

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Summary

My passion is understanding the mind and its relation to the world. Formally, this involves the creation of mental models and the study of mereology and reference. Less formally, I am interested in the philosophy of identity and how both individuals and society may benefit from a deeper understanding of mind.

Experience

Writing

Author, The Whole Part – 2016-2021
Writing and theorizing about the mind (see https://theWholePart.com)

Professional Software Development

President, Psygraph – 2013-2016
Created a cross-platform mediation app (see https://psygraph.com)

Team Lead, The MathWorks – 2011-2012
Served as team lead for the System Objects Infrastructure.
Planned releases, led design reviews, and coordinated between teams.

Senior Software Engineer, DSP and Computer Vision, The MathWorks – 2003-2006
Created and maintained AudioPlayer/AudioRecorder and other AV code.
Created UDP and USRP2 blocks for networking and Software Defined Radio

Software Engineer, Image Processing and Scientific Data Formats, The MathWorks – 2003-2006
Created an interface to the HDF5 file format.
Worked with various image processing code and libraries (JPEG, TIFF, etc).

Software Engineer, ArborRhythms – 1994-1997
Wrote musical software to allow the composition of music using a deep structure.

Research

Researcher, Self Employed – 2017-current
Conducted web experiments using MTurk and JPsych related to learning and negativity bias.

Researcher, Brown University Affective Neuroscience Lab – 2014-2016
Repaired and maintained codebase for EEG processing in MATLAB

Researcher, NorthWest Computational Intelligence Lab – 2000-2001
Developed fuzzy logic and neural network controllers for non-linear models.
Researched control methods using the Dual Heuristic Programming paradigm.

Teaching

High School Teacher, Halio International School – 2014-2015 : Taught JavaScript programming

CS Lab Manager, PSU – 1998-2000 : Tutored students and managed the CS lab

Computer Preschool Teacher, Joyful Noise – 1994-1997 : Taught and played with children

Education

Degree

Portland State University – MS Electrical Engineering (3.87), 2003
Portland State University – BS Computer Science, BS Psychology, 2001

Non-degree

Reed College, Cornell University, Boston University, Maitripa College, Rigpa Shedra

Skills & Interests

Psychology

Artificial intelligence (neural and cognitive modeling using linear and non-linear models), biofeedback, behavioral conditioning, Buddhist psychology.

Audio & DSP

Extensive audio programming and signal processing experience, running soundboards and PA systems on a volunteer basis.

Software Development

Proficient at C++, C, MATLAB, Python, Java, JavaScript, XML, HTML, UML, Perl, PHP, on Windows, MacOS, Linux, Android, and IOS.

Publications

Alec Rogers, *The Whole Part*, 2020 (https://thewholepart.com).
Alec Rogers, *Mathematics of Enlightenment*, 2014 (Mind and Life Conference poster).
Alec Rogers, *Cognitive Set Theory*, 2012.
Alec Rogers, T. Shannon & G. Lendaris, *A Comparison of DHP Based Antecedent Parameter Tuning Strategies for Fuzzy Control*, IFSA/NAFIPS Conference, Vancouver, B.C., July, 2001.
George Lendaris, T. Shannon, L. Schultz, S. Hutsell & A. Rogers, *Dual Heuristic Programming for Fuzzy Control*, IFSA/NAFIPS Conference, Vancouver, B.C., July, 2001.

References

Available on request.