Jason Bens

1-403-845-9125
1204 Yates Street
Victoria, BC V8V 4V1
Jason.L.Bens@gmail.com
linkedin.com/in/jasonbens
github.com/JasonBens

Bio

I'm an electrical engineer interested in finding applications for deep learning in computer-science and engineering fields. I enjoy working with embedded systems and playing with microcontrollers. Eventually, I want to bridge the gap between humans, machines, and AI, and find ways to combine them to make something greater than the sum of its parts. In my off-time, I learn about whatever interests me through online courses such as those offered by Coursera or edX.

Experience

Research Intern

Advanced Telecommunications Research Institute International Kyoto, Japan
June 2013 - August 2013
Under the supervision of Dr. Yukiyasu Kamitani in the Department of Neuroinformatics, I performed research into machine learning, primarily focusing on the application of neural networks, especially deep learning architectures, to the decoding of object representations in the brain. Primarily, I worked on implementing a stacked denoising autoencoder in python using Theano to perform generic object recognition with the goal of using fMRI data to predict the neural response of a subject when presented with an image.

Research Intern

Advanced Telecommunications Research Institute International Kyoto, Japan
July 2012 - April 2013
Working under the supervision of Dr. Noriko Yamagishi and Dr. Matthew DeBrecht in the Department of Cognitive Neuroscience, we performed research into the mechanisms of visual attention, as well as neural plasticity. My primary duties were developing software using MATLAB to perform visual experiments, as well as pattern extraction using the resulting EEG, MEG, and fMRI data. Additional duties involved learning to use new software packages, and developing documentation and guides to perform routine data processing steps using these new packages.

Education

B.Eng in Electrical Engineering University of Victoria
2012 - 2014

- Designed a portable USB battery pack as a capstone project.
- Took part in the UVic ECOSat team designing a small satellite for the Canadian Satellite Design Competition put on by Geocentrix.
- Implemented an unsupervised image segmentation algorithm by Deng and Clausi using Markov Random Fields.
- Designed a software-defined PSK31 transceiver using GNU Radio.

Diploma in Electronics Engineering Technology Southern Alberta Institute of Technology
2009 - 2011

- Designed a 20 MHz arbitrary signal generator as a capstone project.

Massive Open Online Courses

- Web Intelligence and Big Data
- The Brain and Space

Skills

C	Spice	Machine Learning	about that?	Working?
Python	Altium	Pattern Recognition		
Matlab	NI LabView	Deep Learning		
LaTeX		Neural Networks		
Git				