

Brian Eriksson, Ph.D.

brian.c.eriksson@gmail.com
<http://www.brianeriksson.com>

Summary

Technology leader directing innovative projects and teams in the areas of artificial intelligence and machine learning. Focusing on leading teams on zero-to-one projects and building novel AI experiences.

Experience

Adobe, November 2017 – Current – San Jose, CA

Senior Engineering Manager, AI Experiences, January 2020 - Current

- Leading a full-stack project on rethinking search and discovery of creative assets. Directed engineering teams building mobile and web apps, content indexing pipelines, and next-generation recommendation services.
- Directed a team that launched contextual recommendation service in the Adobe Creative Cloud app (iOS and Android). Proactively pushes the most relevant content edits to users after new image uploads. One of the first services at Adobe that intelligently works behind-the-scenes for the user to modify their content.
- Mentored and developed two new engineering managers, fostering their development from leading small projects to managing organizations of 3+ individuals.

Engineering Manager, Applied Research, November 2017 - December 2019

- Led the development of a variety of assistant experiences across the Adobe product ecosystem, including customer service chat bots and in-app contextual recommendations.
- Built a new team of 10+ ML/AI scientists and full-stack engineers

Technicolor, July 2012 – November 2017 – Los Altos, CA

Technical Area Lead, Artificial Intelligence, November 2014 – November 2017

- International technical lead for an organization of over 30 scientists and engineers across the United States and France in the area of predictive data analytics and artificial intelligence (AI).
- Led the transitioning of an existing organization to AI, ML, and data analytics projects
- Deployed technology transfer solutions for:
 - Special effects workforce analytics, leading to improved forecasting of overtime costs
 - Connected aging, end-to-end monitoring solution deployed in multiple assisted living facilities
 - DVD/Blu-Ray production optimization, resulting in better manufacturing yields
- Recognized as Group High Potential 2014 and 2015, designated to fifty top performers out of 16k global employees.
- Mentored and developed new project managers, guiding them on building roadmaps and working with external stakeholders

Researcher, July 2012 – October 2014

- Published and presented at top-tier conferences including ICML, SIGKDD, UbiComp, ECML, etc.
- Co-founder, Empath Analytics, internal incubator project. Performed and led customer and product development for a wearable-focused startup. Responsibilities included:
 - Raised funds from external VCs

- o Developed novel algorithms and functioning full-stack prototypes
- o Presented to potential customers (Nielsen, Dreamworks Animation)

Boston University, September 2010 – June 2012 – Boston, MA

Postdoctoral Research Fellow, *Department of Computer Science*

- Published research in the areas of machine learning and networks. Specific contributions include insights into Internet location targeting and development of novel clustering algorithms
- Presented and fostered relationship with government funding sources
- Wrote grant applications with collaborators

University of Wisconsin – Madison, September 2004 – August 2010 – Madison, WI

Research Assistant, *Department of Electrical and Computer Engineering*

- Published research in the areas of networking and image processing. Specific contributions include insights on Internet structure and the creation of algorithms robust to missing data.

Education

University of Wisconsin – Madison

Ph.D. Electrical Engineering, August 2010

M.S. Electrical Engineering, May 2006

B.S. Computer Engineering, May 2004

Programming Languages

Python (Sklearn, Keras, Tensorflow), Javascript (React), Scala (Apache Spark)

Selected Patents

- Using Augmented Reality To Fill-In Content For User-Specific Censoring
- A Methodology for Rewarding Binge Watching Behavior
- Rethinking the Pause Button
- Method For Reliable Storage Of Data Onto DNA Allowing Efficient Access To Data
- Adaptive Decomposition of Electro-Dermal Measurement Signals

Selected Publications

- *Wide Compression: Tensor Ring Nets*. W. Wang, Y. Sun, B. Eriksson, W. Wang, V. Aggarwal. CVPR 2018
- *From VFX Project Management to Predictive Forecasting*. H. Ricklefs, S. Puschendorf, S. Bhamidipati, B. Eriksson, and A. Pushparaja. ACM SIGGRAPH 2017 (Talks Track)
- *Just One More: Modeling Binge Watching Behavior*. W. Trouleau, A. Ashkan, W. Ding, B. Eriksson. ACM SIGKDD Conference 2016
- *Learning Latent Variable Gaussian Graphical Models*. Z. Meng, B. Eriksson, A.O. Hero III. International Conference on Machine Learning (ICML) 2014
- *Predicting Audience Responses to Movie Content from Electro-Dermal Activity Signals*. F. Silveira, B. Eriksson, A. Sheth, and A. Sheppard. ACM UbiComp Conference 2013