

**Grady Jensen**  
Curriculum Vitae  
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**Contact**

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**Research Interests**

The ability of the brain to collect, aggregate, and sift through a non-stop flow of information is deeply intriguing. I have a deep-seated interests regarding biological memory, learning, and the artificial means of replicating both through modelling spatio-temporal interactions. For more detailed information see my website.

**Education**

ongoing Ph.D., Systemic Neuroscience  
Graduate School of Systemic Neurosciences,  
Ludwig-Maximilians-Universität München, Germany

2013 M.Sc., Computer Science  
University of Minnesota – Minneapolis, MN, USA  
Advisor, Daniel Boley  
Project, *Probabilistic Topic Models: Gamma-Poisson and Latent Dirichlet Allocation*

2008 B.A., Computer Science, Cum Laude  
Luther College – Decorah, IA, USA  
Minors in Mathematics and German

**Work Experience**

2015 - ongoing Ph.D. Research Assistant  
Bernstein Center for Computational Neuroscience Munich, Department of Biology  
II Neurobiology, Ludwig-Maximilians-Universitaet Munich, Germany

2008 – 2015 Software/Firmware Engineer  
International Business Machines (IBM), Rochester, MN, USA

Projects:

2014 – 2015 Watson Clinical Trials Matching  
2014 – 2015 Watson Solutions Natural Language Processing and Modelling  
2013 – 2014 Unnamed Systems Management Application ( Not yet released )  
2013 Pure Systems Embedded Controller Development for Layer 2 Switch  
2010 – 2013 Pure Systems Embedded Firmware Utilities and Libraries  
2008 – 2010 Advanced Settings Utility ( ASU ) & Firmware Updates ( xFlash )  
2008 Java Build System Pipeline

**Publications and Patents**

2012 Method for Managing Error Logs and Trace across a Distributed Multi-host, Multi-switched, Multi- adapter Network Fabric. US Patent Num ( 8,996,925 and 8,990,642 ).  
Issued in May of 2015.

**Non-published Academic Research Projects**

2017 *CNN-based Segmentation of Medical Imaging Data*, Ludwig-Maximilians-

Universitaet, Munich, Germany  
<https://arxiv.org/abs/1701.03056>

- 2012 – 2013 *Probabilistic Topic Models: Gamma-Poisson and Latent Dirichlet Allocation*, University of Minnesota, Minneapolis, MN, USA  
A theoretical comparison of a few probabilistic topic models that are purported to be equivalent, but whose form prevents easy verification, by showing similarities and divergences in a common format.
- 2011 *Reinforcement Learning of a Markov Adversarial Game through Stochastic Fictitious Play*, University of Minnesota, Minneapolis, MN, USA  
Modelling of a game between competing algorithms with opposing objectives. A series of topologies are used to understand how states in the system evolve over time to produce strategies for each agent.

### Teaching Experience

- 2017 IN 4155 Deep Learning in the Real World, Technical University of Munich, Munich, Germany  
2016 IN 2064 Machine Learning I, Technical University of Munich, Munich, Germany  
2009 Teacher: Tutorial on IBM ASU/xFlash product development and support, Shanghai, China

### Mentoring Experience

- 2017 Yen Duong – Individual Development Project at TUM, Munich, Germany  
2016 Baris Kayalibay – Bachelor's Thesis at TUM, Munich, Germany  
2016 Adam Kosiorek – Master's Thesis at TUM, Munich, Germany  
2014 IBM Intern Program, 2 German pre-graduate interns, Rochester, MN, USA  
2013 IBM Intern Program, 1 pre-graduate intern, Rochester, MN, USA

### Awards and Honors

- 2008 Pi Mu Epsilon Mathematics Honor Society  
2006 – 2008 Iowa Conference All-Academic Team  
2004 – 2008 Luther College Dean's List  
2004 University of Wisconsin – Eau Claire Math Competition, 1<sup>st</sup> Place Team  
2003 University of Wisconsin – Eau Claire Math Competition, 2<sup>nd</sup> Place Team  
2003 University of Wisconsin – Eau Claire Math Competition, 3<sup>rd</sup> Place Individual

### Scholarships

- 2010 – 2013 IBM Academic Learning Assistance Program  
2004 – 2008 Luther College Regents Scholarship  
2004 – 2008 Weston Noble Scholarship  
2007 Emerson Mathematics Scholarship  
2006 Luther College Semester Study Abroad Program, Münster, Germany

### Volunteer Positions

- 2010 Assistant Coach, Track and Field, Century High School, Rochester, MN  
2009 Assistant Coach, Cross Country, Century High School, Rochester, MN

## **Languages**

English	Native
German	Professional Working

## **Professional Membership**

ACM, Association of Computing Machinery

SIGACT, Special Interest Group on Algorithms and Computation Theory

SIGIR, Special Interest Group on Information Retrieval

SIGAI, Special Interest Group on Artificial Intelligence