matt.matlock@gmail.com

# **Research Interests**

Predicting the pharmacokinetic properties of drug-like molecules using statistical machine learning methods

# **Education**

2015-now	Philosophy Doctorate (Ph.D.) Computational Biology	Washington University in St. Louis
2013-now	Medical Doctorate (M.D.)	Washington University in St. Louis
2010-2011	Master of Science (M.S.) Computer Science	University of Tulsa
2009-2010	Graduate Study Computer Science	Duke University
2005-2009	Bachelor of Science (B.S.)  Double Major in Mathematics and Computer Science Magna Cum Laude	University of Tulsa

# **Publications**

M. K. Matlock. Machine Classification Bipolar and Major Depressive Disorder using Structural Features of The Cerebral Cortex. Master's Thesis. University of Tulsa, 2011.

### **Refereed Journal Articles**

### **Conference Proceedings**

### **Presentations**

2009	Effective tag mechanisms for evolving coordination	AAMAS 2009* Budapest, Hungary
2007	Effective tag mechanisms for evolving cooperation	AAMAS 2007* Honolulu, HI, USA
2006	Evolutionary Programming Solutions of MDPs	University of Tulsa Research Colloquium Tulsa, OK, USA

### **Awards and Achievements**

2009	James B. Duke Fellowship Recipient	Duke University
2009	Graduate Research Fellowship Honorable Mention	National Science Foundation
2008-2009	President: Mathematical Association of America	University of Tulsa
2005-2009	Presidential Honor Roll	University of Tulsa
2008	Ralph W. Veatch Outstanding Academic Achievement Award	University of Tulsa
2007-2008	Treasurer: Association for Computing Machinery	University of Tulsa
2007	2nd Place, Agent Reputation and Trust Testbed Competition	AAMAS 2007*
2006-2007	President: Association for Computing Machinery	University of Tulsa

Teaching		
2015	Teaching Assistant Molecular Foundations of Medicine	School of Medicine Washington University in Saint Louis
2011	Teaching Assistant Applied Cryptography and Threat Analysis	Continuing Education University of Tulsa
2006-2007	Instructor Principles of Robotics, C Programming for Microprocessors	Summer Robotics Institute University of Tulsa

#### **Technical Skills**

Statistical machine learning methods including neural networks, SVMs and others Methods

Computer Languages: Proficient Python, Java, Javascript, C, C++, PHP, SQL, Bash, MFX, {X}HTML, CSS

Computer Languages: Familiar Erlang, Ruby, Cucumber, C#

Tensorflow, Eclipse IDE, GVim, Mathematica, Matlab, Microsoft Office

Operating Systems Linux (Debian/Ubuntu, with knowledge of system administration), Mac OS X, Windows 98/2000/XP/7

#### References

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> Assistant Professor Department of Biomedical Engineering

Department of Pathology and Immunology

Washington University School of Medicine

**Assistant Professor** 

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<sup>\*</sup> International Conference on Autonomous Agents and Multiagent Systems

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Sandip Sen, Ph.D.

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Relationship: Research and academic advisor

Professor Department of Computer Science University of Tulsa

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