JEREMY C. WEISS

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EDUCATION

M.D.	**University of Wisconsin–Madison** School of Medicine and Public Health	2007 – 2009, 2014 – 2016
Ph.D.	**University of Wisconsin–Madison** Department of Computer Sciences	2009 – 2014
B.A./B.S.	**University of Pennsylvania** Department of Mathematics, Department of Biochemistry	2003 – 2007
H.S.	**The Lakeside School**	1999 – 2003

RESEARCH EXPERIENCE

Carnegie Mellon University Aug. 2016 - Present
Assistant Professor of Health Informatics *Pittsburgh, PA*

- Research on machine learning methodologies for analysis of electronic health records
- Affiliate appointment: Machine Learning Department in the School of Computer Science
- Adjunct appointment: Department of Biomedical Informatics at the University of Pittsburgh

TEACHING EXPERIENCE

Carnegie Mellon University Aug. 2016 - Present
Assistant Professor of Health Informatics *Pittsburgh, PA*

- (Upcoming) Spring 2018: Applied Analytics: the Machine Learning Pipeline (masters level)
- (Upcoming) Spring 2018: Applied Machine Learning (PhD level)
- Summer 2017: Health Care Analytics
- Spring 2017: 95-845, Analytics Practicum: Machine Learning for Health Care (masters level)
- Fall 2016: 95-796, Statistics for IT Managers (masters level)
  Intermediate Statistical Methods, cross-list

PUBLICATIONS

Weiss JC. Piecewise-constant parametric distribution approximations for survival learning. Machine Learning in Health Care, with Proceedings in the *Journal for Machine Learning Research*, 2017.

Weiss JC, Kuusisto F, Boyd K, Liu J, and Page D. Machine learning for treatment assignment: improving individualized risk attribution. *American Medical Informatics Association (AMIA) Annual Symposium*. San Francisco, 2015.

Lantz E, **Weiss JC**, Page D, Schmelzer J, Berg R, Yale S, Miller A, and Burmester J. Using electronic health records to predict therapeutic warfarin dose. *American Medical Informatics Association Joint Summit on Translational Science*, 2015.

Weiss JC, Natarajan S, and Page D. Learning to reject sequential importance steps for continuous-time Bayesian networks. *Association for the Advancement of Artificial Intelligence (AAAI)*. Austin, 2015.

Weiss JC. Statistical timeline analysis for electronic health records. University of Wisconsin-Madison, 2014. PhD Thesis.

Weiss JC and Page D. Forest-based point processes for event prediction from electronic health records. *European Conference on Machine Learning (ECML-PKDD)*, Prague, CZ, 2013.

Weiss JC, Natarajan S, Page D. Multiplicative forests for continuous-time processes. *Neural Information Processing Systems (NIPS)*, Lake Tahoe, 2012.

Weiss JC, Natarajan S, Peissig P, McCarty C, and Page D. Machine learning for personalized medicine: predicting primary myocardial infarction from electronic health records. *AI Magazine*, Winter 2012.

Weiss JC, Natarajan S, Peissig P, McCarty C, and Page D. Statistical relational learning to predict primary myocardial infarction from electronic health records. Innovative Applications of Artificial Intelligence (IAAI). Toronto, 2012.

Lovasi GS, **Weiss JC**, Hoskins R, Whitsel EA, Rice K, Erickson CF, and Psaty BM. Comparing a single-stage geocoding method to a multi-stage geocoding method: how much and where do they disagree. *International Journal of Health Geographics.16*;6:12, 2007.

PRESENTATIONS

Weiss JC and Childers S. "Spatial statistics to evaluate player contribution in ultimate." *Sloan Sports Analytics Conference*. Cambridge, 2014.

Weiss JC and Childers S. "Maps for reasoning in ultimate." *ECML Workshop on Sports Analytics*. Prague, CZ, 2013.

Weiss JC, Natarajan S, and Page D. "Learning when to reject an importance sample." *AAAI Conference Late Breaking Papers*, Bellevue, 2013.

Weiss JC. "Timeline analysis for predicting clinical events from electronic health records." National Library of Medicine Informatics Training Conference. Salt Lake City, 2013. **(Best talk award)**

Weiss JC, Natarajan S, Peissig P, McCarty C, and Page D. "Tree structures for continuous-time Bayesian networks: a scalable representation for medical diagnosis prediction." MathBio3:Modeling Symposium. Madison, 2011.

Weiss JC, Berg B, Peissig P, McCarty C, and Page D. "Clustering from overly-specific features to improve rule-based prediction." *Neural Information Processing System (NIPS) Conference 2010 Workshop on Predictive Models In Personalized Medicine*, Vancouver, 2010.

HONORS AND AWARDS

Medical Scientist Training Program, University of Wisconsin-Madison	2007 – 2016
Best Project, "Deep Roots", University of Wisconsin-Madison Medical Education Day	2016
T32, National Library of Medicine Computation and Informatics in Biology and Medicine	2012 – 2014
Best Talk, National Library of Medicine Informatics Training Conference	2013
T32, Clinical and Translational Science Award University of Wisconsin-Madison Institute for Clinical and Translational Research	2010 – 2012

PROFESSIONAL SERVICE

Program committee/reviewer for:

International Conference on Learning Representations (2018),
Association for the Advancement of Artificial Intelligence (2015, 2016, 2017, 2018),
Neural Information Processing Systems (2016,2017),
American Medical Informatics Association Joint Summit (2017),

Artificial Intelligence and Statistics (2017),
Annals of Internal Medicine (2016), **(Best reviewer award)**,
United Kingdom Medical Research Council (2016),
International Joint Conference on Artificial Intelligence (2013, 2016),
American Medical Informatics Association Annual Symposium (2016),
International Conference on Machine Learning (2016),
Journal of Biomedical Informatics (2016),
Journal of Computational and Geographical Statistics (2016),
Machine Learning Journal (2016),
American Medical Informatics Association Joint Summit (2015),
Journal of Machine Learning Research (2015),
International Journal of Epidemiology (2014),
Journal of Artificial Intelligence Research (2013, 2014),
Inductive Logic Programming (2014), and
Uncertainty in Artificial Intelligence (2013).

COMPUTER SKILLS

Languages	R, Java, C++, Scala/Spark, Python, SQL, JavaScript
Tools	LaTeX, Markdown, RMarkdown, shell, bash, Emacs, eclipse, git, svn