

Biographical Sketch: Bruce A. Desmarais

(a) Professional Preparation:

- Eastern Connecticut State University, Economics and Public Policy, B.A. (2002)
- University of North Carolina at Chapel Hill, Political Science, M.A. (2008)
- University of North Carolina at Chapel Hill, Political Science, Ph.D. (2010)

(b) Appointments:

- *University of Massachusetts Amherst* Assistant Professor, 2010 - Present

(c) Publications

(i) Publications Directly Related to the Proposed Project

- Peter Krafft, Juston Moore, Bruce Desmarais and Hanna Wallach. 2012. “Topic-Partitioned Multinet- work Embeddings.” In *Proceedings of the 26th Annual Conference on Neural Information Processing Systems*.
- Cranmer, Skyler J. and Bruce A. Desmarais. 2011. “Inferential Network Analysis with Exponential Random Graph Models.” *Political Analysis*. 19(1): 66-86.
- Desmarais, Bruce A. and Skyler J. Cranmer. 2012. “Statistical Inference for Valued-Edge Networks: The Generalized Exponential Random Graph Model” *PLoS-ONE*. 7(1):e30136.
- Desmarais, Bruce A. and Skyler J. Cranmer. 2012. “Statistical Mechanics of Networks: Estimation and Uncertainty.” *Physica A* 391(4): 1865-1876.
- Desmarais, Bruce A. and Skyler J. Cranmer. 2010. “Consistent Confidence Intervals for Maximum Pseudolikelihood Estimators” *Neural Information Processing Systems 2010 Workshop on Computational Social Science and the Wisdom of Crowds*.

(iii) Other Significant Publications

- Desmarais, Bruce A. 2012. “Lessons in Disguise: Multivariate Predictive Mistakes in Collective Choice Models.” *Public Choice*. 151(3-4): 719-737..
- Cranmer, Skyler J., Bruce A. Desmarais, and Elizabeth J. Menninga. 2012. “Complex Dependencies in the Alliance Network” *Conflict Management and Peace Science* 23(3).
- Cranmer, Skyler J., Bruce A. Desmarais, and Justin H. Kirkland. 2012. “Towards a Network Theory of Alliance Formation” *International Interactions*. 38(3): 295-324.
- Desmarais, Bruce A. and Skyler J. Cranmer. 2012. “Micro-Level Interpretation of Exponential Random Graph Models with Application to Estuary Networks” *Policy Studies Journal*. 40(3): 402-434.
- Desmarais, Bruce A. and Jeffrey J. Harden. 2012. “Comparing Partial Likelihood and Robust Estimation Methods for the Cox Regression Model” *Political Analysis*. 20(1): 113-135.

(d) Synergistic Activities

- Co-organized an interdisciplinary speaker series in Computational Social Science at UMass Amherst (2010–Present) – <http://cssi.umass.edu/seminars.html>.
- Editorial board member, *State Politics & Policy Quarterly*, (2011–Present).
- Member of the fellowship committee for the 2012 Political Networks Conference.
- Participated in the founding and administration of the Triangle Political Methodology Group (2009–2010) – <http://www.unc.edu/depts/polisci/methods/>.

(e) Collaborators and other Affiliations

(i) Collaborators

- Skyler Cranmer, University of North Carolina at Chapel Hill
- Jeffrey J. Harden, University of North Carolina at Chapel Hill
- Hanna Wallach, University of Massachusetts Amherst
- Brian Schaffner, University of Massachusetts Amherst
- Vincent Moscardelli, University of Connecticut
- Tobias Heinrich, Rice University
- Allison Freeman, Center for Community Capital (UNC Chapel Hill)
- Elizabeth Menninga, University of North Carolina Chapel Hill
- Justin Kirkland, University of North Carolina, Chapel Hill
- Rachel Shorey, University of Massachusetts Amherst
- Stuart Benjamin, Duke University
- Peter Krafft, University of Massachusetts Amherst

(ii) Graduate and Post-Doctoral Advisors

- Thomas Carsey, University of North Carolina Chapel Hill
- Skyler Cranmer, University of North Carolina Chapel Hill
- James Stimson, University of North Carolina Chapel Hill
- Kevin McGuire, University of North Carolina Chapel Hill
- Isaac Unah, University of North Carolina Chapel Hill

(ii) Thesis Advisor

- Rachel Shorey, UMass Amherst Computer Science M.S. Student
- Peter Krafft, UMass Amherst Computer Science M.S. Student
- James Aaron, UMass Amherst Political Science Ph.D. Student
- Michael Kowal, UMass Amherst Political Science Ph.D. Student
- Manabu Nakashima, SUNY Albany Public Administration Ph.D. Student

Total number of graduate students advised: 4