Biographical Sketch of Stefan Forcey

Department of Mathematics	Department of Integrated Bioscience	University of Akron
College of Arts and Sciences		sforcey@uakron.edu

(a) Professional Preparation

• Liberty University	Lynchburg, VA	Mathematics with Computer Science concentration	B.S. 1997.
• Virginia Tech	Blacksburg, VA	Mathematics	M.S. 2002.
• Virginia Tech	Blacksburg, VA	Mathematics	Ph.D. 2004.

(b) Academic Appointments

- Professor, University of Akron, 2020-current.
- Associate Professor, University of Akron, 2014-2020.
- Assistant Professor, University of Akron, 2010-2014.
- Assistant Professor, Tennessee State University, 2005-2010.
- Graduate Research Assistant, Virginia Tech (supported by advisor's NSF grant), Summer 2000, 2001 and 2002, Summer/Spring/Fall 2003, Spring 2004.
- Graduate Teaching Assistant, Virginia Tech
  Fall 1997, Spring 1998, Spring/Summer/Fall 1999, Spring/Fall 2000-2002.
- Instructor, Virginia Tech Calculus Readiness Week, July 2000.

Nonacademic Employment

- Framatome Technologies, Lynchburg VA.
  Jan. 1996 - Aug. 1997, Summer and Fall 1998.

(c.i) Publications: most relevant

- Split Network Polytopes and Network Spaces. (with S. Devadoss, C. Durell)
  available online: *SLC Proceedings* 82B, FPSAC 31, pp 1-12, 2019.
  `arxiv.org/abs/1905.11225`
- Split-facets for Balanced Minimal Evolution Polytopes and the Permutoassociahedron. (with L. Keefe, W. Sands)
  Bulletin of Mathematical Biology , 79(5), pp 975-994, 2017.
  `arxiv.org/abs/1608.01622`
- Facets of the Balanced Minimal Evolution Polytope. (with L. Keefe, W. Sands)
  Journal of Mathematical Biology , 73(2), pp 447-468, 2016.
  `arxiv.org/abs/1501.05536`
- Convex Polytopes from Nested Posets. (with S. L. Devadoss, S. Reisdorf, P. Showers)
  European Jour. of Combinatorics, 43, pp 229248, 2015.
  `arxiv.org/abs/1306.4208`
- Pseudograph associahedra. (with M. Carr, S. Devadoss)
  Jour. of Combinatorial Theory, Series A, 118(7), pp 2035-2055, 2011.
  `arxiv.org/abs/1005.2551`

(c.ii) Publications: additional

- Level-1 phylogenetic networks and their balanced minimum evolution polytopes. (with C. Durell) *Journal of Mathematical Biology* 80, pp 1235-1263, 2020. `https://doi.org/10.1007/s00285-019-01458-w`
- Optimization problems in phylogenetics: Polytopes, programming and interpretation. (with G. Hamerlinck, W. Sands) *Algebraic and Combinatorial Computational Biology* eds. R. Robeva, M. Macauley, pp 319-350, 2018.
- Hopf structures on the multiplihedra. (with A. Lauve, F. Sottile) *SIAM Jour. of Discrete Mathematics*, 24(4), pp 1250-1271, 2010. `arxiv.org/abs/0911.2057`
- Convex Hull Realizations of the Multiplihedra *Topology and its Applications*, 156, pp 326-347, 2008. `arxiv.org/abs/0706.3226`
- Operads in iterated monoidal categories (with J. Siehler, E. Seth Sowers) *Jour. of Homotopy and Related Structures* 2, pp 1-43, 2007. `arxiv.org/math/0702858`

(d) Synergistic Activities

- Editor of Encyclopedia of Combinatorial Polytope Sequences. `http://www.math.uakron.edu/~sf34/hedra.htm`
- Co-Organizer of Special Session on Graphs and Polytopes in Algebraic Combinatorics, Fall Central Sectional AMS Meeting October 20-21, 2012.
- Organizer of Physics and Mathematics Faculty Research Seminar, Tennessee State University, 2005-2010.
- Founder and organizer of Mathematics Graduate Student Research Seminar, Virginia Tech, 2003-2004.
- "Teaching to Promote Students Intellectual Development" workshop by Marcia Baxter Magolda VT Center for Excellence in Undergraduate Teaching, May 2001.