

Curriculum Vitæ

Tichon, Jenna Gaylene

Instructor 1

Education

- Ph.D., Department of Statistics, University of Manitoba, 2018
- M.Sc., Department of Statistics, University of Manitoba, 2010
- B.Sc. (Hons), Department of Mathematics and Statistics, University of Winnipeg, 2008
- B.A. (4 Yr), Department of Mathematics and Statistics, University of Winnipeg, 2008

Professional Experience

2016 – Present: Instructor 1, University of Manitoba

2013 – 2014: Sessional Instructor, University of Winnipeg

2010 – 2016: Sessional Instructor, University of Manitoba

Research

Research interests

My academic research interests are in experimental design with a focus on split-plot designs. My areas of research in split-plot designs have covered nonregular, semifoldover, and response surface methodology with categorical factors with a focus on computer algorithms for finding optimal designs.

I am also actively studying and taking courses and workshops in teaching pedagogy. In particular I am interested in incorporating technology in the classroom, lesson planning, and active learning techniques.

Refereed publications

1. Tichon, J., Li, W., McLeod, R.G. "Generalized Minimum Aberration Split-Plot Designs" (2012) *Journal of Statistical Planning and Inference*, 142, pp. 1407-1414
2. Muthukumarana, S., Vincent, K., Tichon, J.G. "Bayesian Item Response Analysis of Methods-of-Payments Habits in Banking Surveys" (2019) *Journal of Mathematical Finance*, 9, pp. 1-10

Research grants and awards

1. Faculty of Science Scholarship, University of Manitoba, 2013-2014
2. NSERC Postgraduate Scholarship, 2011-2013
3. NSERC Alexander Graham Bell Canadian Graduate Scholarship, 2008-2010
4. NSERC Undergraduate Research Award 2007, 2008

Talks and presentations

Invited and plenary talks and lectures

1. "Educreations: Video Tools for Statistical Teaching", Invited Talk, University of Manitoba, Statistical Society of Canada Annual Meeting, June 2017
2. "Active Learning Style and Teaching", Invited Talk, University of Manitoba, Reg Litz Teaching Day 2018, November 2018

Contributed talks

1. "Semifolding Two-Level Fractional Factorial Split-Plot Designs", Statistical Society of Canada Annual Conference, June 2009
2. "Random Graphs and the Probabilistic Method", Canadian Undergraduate Mathematics Conference, July 2008
3. "The Use of Robust Parameter Design in Fractional Factorial Split-Plot Designs", Canadian Undergraduate Mathematics Conference, July 2007

Seminars and posters

1. "Creating Student Centered Activities in the Lab and Classroom: BOPPPS and the Creation of STAT 1150", Nov. 2018
2. "Crowdmark: A How To For Online Marking", University of Manitoba Department of Statistics Teaching an Technology workshop, Nov. 2017
3. "Introduction to Educreations", University of Manitoba Department of Statistics Seminar Series, Sept. 2015

Teaching

Teaching experience

- 2010/11:** STAT 1000 (Basic Statistical Analysis 1), STAT 2220 (Contemporary Statistics for Engineers), STAT 2400 (Introduction to Probability 1)
- 2012/13:** STAT 1000
- 2013/14:** STAT 1501 (Elementary Biological Statistics 1, University of Winnipeg), STAT 1000 (Distance Ed.), 2400
- 2014/15:** STAT 1000 (2 Distance Ed, 1 in class), STAT 1501 (University of Winnipeg), STAT 2400
- 2015/16:** STAT 2400 (2 sections)
- 2016/17:** STAT 1000 (4 sections), STAT 2400 (2 sections), STAT 3000 (Applied Linear Statistical Models)
- 2017/18:** STAT 1150 (Introduction to Statistics and Computing, 3 sections), STAT 1000 (2 sections), STAT 2400 (1 section)
- 2018/19:** STAT 1150 (1 section), STAT 1000 (1 section), STAT 3000 (1 section)

Service

Service within the department

- 2009/10: Academic Search Committee, Assistant Professor
- 2010/11: Academic Search Committee, Assistant Professor
- 2016/17: Public Relations Committee, Undergraduate Committee
- 2017/18: Undergraduate Committee
- 2018/19: IT Committee, Public Relations Committee

Service within the faculty and university

- 2015/17: Academic Search Committee, Canadian Research Chair Tier 2

Service within the professional community

Service in Professional societies

- 2006/07: Student Committee, Canadian Mathematical Society
- 2007/10: Student representative, Board of Directors, Canadian Mathematical Society
- 2007/10: Co-chair, Student Committee, Canadian Mathematical Society
- 2012/13: Chair, Ad Hoc Committee for the formation of a graduate and recent graduate committee, Statistical Society of Canada
- 2013/15: Chair, Student and Recent Graduate Committee, Statistical Society of Canada

Other

Society memberships

- Statistical Society of Canada

Professional Development

1. UM Learn: Awards with Michelle Laarissa (Aug 2018)
2. UM Learn: Intelligent Agents with Michelle Laarissa (Aug 2018)
3. Mobile Summer Institute (June 2018)
4. Designing and Evaluating Assessment Strategies with Cora Chojko-Bolec (May 2018)
5. Student Incivility with Michael Link (May 2018)
6. Supporting International Students in Teaching and Learning Practices with Yunyi Chen (May 2018)
7. Teaching Cafe 2018 (May 2018)
8. Teaching Strategies to Increase Learning and Promote Academic Integrity with Brenda Stoesz (May 2018)
9. Mental Health in the Classroom with David Ness and Arlana Vadnais (May 2018)

10. Reflective Practice with Michael Link (May 2018)
11. Universal Instructional Design with Jennifer Rausch and Mehdi Nikham (Dec 2017)
12. Indigenous Knowledge and the Potential for Scholarly Exploration at the U of M with Debra Beach-Ducharme and Cathy Rocker (Dec 2017)
13. Evaluative Practice with Colleen Webb and Amy De Jaeger (Dec 2017)
14. Teaching Large Classes with Mike Link (Oct 2017)
15. Designing Multiple Choice Tests with Robert Renaud (June 2017)
16. Creating an Online Course Syllabus: A Learning-Centered Approach with Anastasiya Yudintseva (May 2017)
17. Privacy, Professionalism, and Facebook with Dieter Schonwetter (May 2017)
18. Constructive Alignment with Lori Wallace (May 2017)
19. Providing Effective Feedback with Kathy Block and Miriam Unruh (Feb 2017)
20. UM Learn - Quizzes with Michelle Laarissa (Oct 2016)
21. Mental Health in the Classroom with David Ness and Arlana Vadnais (Oct 2016)
22. UM Learn - Gradebook with Michelle Laarissa (Oct 2016)
23. Teaching in Technology with Michael Link (Oct 2016)
24. Teaching Dossier with Colleen Webb (Sept 2016)
25. Lesson Planning with Jennifer Rausch (Sept 2016)
26. Introduction to UM Learn with Michelle Laarissa and Lorna Allard (Sept 2016)
27. UM Learn - Content with Michelle Laarissa and Lorna Allard (Sept 2016)
28. Supporting Students With Disabilities with Carolyn Christie and Jeff Buhse (Mar 2016)
29. Developing Effective Online Communication to Promote Critical Thinking with Jennifer Rausch (Mar 2016)
30. Writing Higher Order Assessments and Test Questions (Feb 2016)
31. Effective PowerPoint Use: How to Avoid Death by PowerPoint (Feb 2016)
32. Student Incivility with Brandy Usick and Jackie Gruber (Jan 2015)
33. Reflective Practice with Michael Link (Dec 2015)
34. Intercultural Communication with Erica Jung (Nov 2015)
35. Visual Content in Your Teaching: Why It's Effective and How to Get it Started with Sarah Clark and Katherine Penner (Oct 2015)

Professional Working Groups

- PALS, pedagogy in science teaching working group, Faculty of Science, University of Manitoba (2017-present)