

**Dr. Daniel Adrian**  
Grand Valley State University  
Statistics  
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## Education

Doctor of Philosophy (PhD), Iowa State University, 2011.

Master of Science (MS, MSc), Northern Illinois University, 2007.  
Major: Applied Probability and Statistics

Bachelor of Science (BS, BSc), Valparaiso University, 2004.  
Major: Mathematics  
Supporting Areas of Emphasis: Secondary Education

## Professional Positions

### Academic

Assistant Professor, Grand Valley State University. (August 2014 - Present).

Teaching Assistant, Department of Statistics and Statistical Laboratory, Iowa State University.  
(August 2007 - May 2011).

Teaching Assistant, Department of Mathematics, Northern Illinois University. (August 2005 - May 2007).

### Government

Mathematical Statistician, Research and Development Division, National Agricultural Statistics Service, U.S. Department of Agriculture. (November 2011 - May 2014).

## Awards and Honors

Fellow, National Science Foundation Research Training Grant, Department of Statistics, Iowa State University. (August 2007).

Director's Award, Division of Statistics, Northern Illinois University. (May 2007).

## Professional Memberships

American Statistical Association. (June 1, 2009 - Present).

Southwest Michigan Chapter of American Statistical Association. (January 2017 - Present).

## SCHOLARSHIP

## Contracts, Grants, and Sponsored Research

### Grant

Adrian, D. W., "Dissemination Travel Grant," Sponsored by Center for Scholarly and Creative Excellence, Grand Valley State University, \$500.00. (July 28, 2019 - August 1, 2019).

Adrian, D. W., "Faculty Conference Travel Grant," Sponsored by Pew Faculty Teaching and Learning Center, Grand Valley State University, \$700.00. (July 29, 2017 - August 3, 2017).

Adrian, D. W., "Dissemination Travel Grant," Sponsored by Center for Scholarly and Creative Excellence, Grand Valley State University, \$500.00. (July 30, 2016 - August 4, 2016).

Adrian, D. W., "Dissemination Travel Grant," Sponsored by Center for Scholarly and Creative Excellence, Grand Valley State University, \$500.00. (August 8, 2015 - August 13, 2015).

Adrian, D. W., "Faculty Conference Travel Grant," Sponsored by Pew Faculty Teaching and Learning Center, Grand Valley State University, \$600.00. (August 8, 2015 - August 13, 2015).

Adrian, D. W., "Student Travel Grant," Sponsored by University of Pittsburgh, Private, \$300.00. (May 20, 2009 - May 22, 2009).

## Intellectual Contributions

### Refereed Journal Articles

#### In Preparation; Not Yet Submitted

Richardson, M., & Adrian, D. Investigating Student Understanding of P-Values. *Statistics Education Research Journal*

Richardson, M., & Adrian, D. Investigating Student Understanding of Sampling Distributions. *Statistics Education Research Journal*

#### Published

Adrian, D. W., Reischman, D., Anderson, K., Richardson, M., & Stephenson, P. (2020). Helping introductory statistics students find their way using maps. *Journal of Statistics Education*, 28(1), 56 to 74

Adrian, D. W., Maitra, R., & Rowe, D. B. (2018). Complex-valued time series modeling for improved activation detection in fMRI studies. *Annals of Applied Statistics*, 12(3), 1451-1478

Richardson, M., & Adrian, D. W. (2017). When Losing is Winning: An Exploratory Analysis of Data from The Biggest Loser TV Show. *Statistics Teacher*

Adrian, D. W., Maitra, R., & Rowe, D. B. (2013). Ricean over Gaussian modeling in magnitude fMRI analysis -- Added complexity with negligible practical benefits. *Stat*, 2, 303-316

#### Submitted

Adrian, D. W., Maitra, R., & Rowe, D. B. Rice-distributed autoregressive time series models and improved activation estimation in fMRI studies. *Journal of American Statistical Association*

### Conference Proceedings

#### Published

Adrian, D. W., Maitra, R., & Rowe, D. B. Improved Activation Detection via Rice-Distributed fMRI Time Series Modeling. (pp. 1052-1062). Alexandria, VA: JSM 2017 Proceedings, Section on Statistics in Imaging.

Adrian, D. W., Maitra, R., & Rowe, D. B. (2015). Improved activation detection via complex-valued AR(p) modeling of fMRI voxel time series. *JSM Proceedings*. (pp. 42-56). Alexandria: American Statistical Association, Section on Statistics in Imaging.

Adrian, D. W. (2012). A model-based approach to forecasting corn and soybean yields. *Proceedings of the Fourth International Conference of Establishment Surveys*. American Statistical Association.

## Other

### Published

Adrian, D. W. (2019). Happy Apps. StatPREP.  
[https://facweb.gvsu.edu/adriand1/happy\\_apps.html](https://facweb.gvsu.edu/adriand1/happy_apps.html)

## Media Contributions

### Internet

Post on StatTLC (Statistics Teaching and Learning Corner) blog. (August 17, 2021).

## Presentations Given

Adrian, D. W., Math in Action, "Michigan Statistics Poster Competition (My Favorites presentation)," Department of Mathematics, GVSU, Grand Valley State University. (February 26, 2022).

Adrian, D. W., CLAS Teaching Roundtables, "Structuring Group Projects in a Virtual Environment," College of Liberal Arts and Sciences (GVSU), Virtual. (November 23, 2020).

Adrian, D. W., Math in Action, "Michigan Statistics Poster Competition," Department of Mathematics, GVSU, Allendale, MI. (February 22, 2020).

Adrian, D. W. (Presenter & Author), Maitra, R. (Author Only), & Rowe, D. B. (Author Only), Joint Statistical Meetings, "Latent complex-valued autoregressive model for fMRI magnitude time series," American Statistical Association, Denver, CO. (July 30, 2019).

Adrian, D. W., United States Conference on Teaching Statistics 2019, "R Shiny Apps for Teaching and Learning Statistics," Consortium for the Advancement of Undergraduate Statistics Education, State College, PA. (May 17, 2019).

Adrian, D. W., Math in Action, "Michigan Statistics Poster Competition (My Favorites presentation)," Department of Mathematics, GVSU, Grand Valley State University. (February 23, 2019).

Adrian, D. W., Electronic Conference on Teaching Statistics (eCOTS), "R Shiny apps for introductory statistics," Consortium for the Advancement of Undergraduate Statistics Education (CAUSE), NA. (May 21, 2018).

Adrian, D. W., & Downer, R., Department Seminar, "Multiplicity Adjustments: Just an Experimental Design Tradition?," Department of Statistics, GVSU, Allendale, MI. (April 5, 2018).

Adrian, D. W. (Presenter Only), & Gupta, S. (Presenter Only), Math in Action, "Interactive Illustrations - Statistical Concepts," Grand Valley State University, Allendale, MI. (February 24, 2018).

- Adrian, D. W., Department Seminar, "Functional MRI data analysis: Complex-valued modeling of voxel time series," Department of Statistics, GVSU, Allendale, MI. (February 8, 2018).
- Adrian, D. W., Department Seminar, "Apps for Statistics Education by R Shiny," Department of Statistics, GVSU, Allendale, MI. (September 7, 2017).
- Adrian, D. W., Maitra, R., & Rowe, D. B., Joint Statistical Meetings, "Improved Activation Detection via Rice-Distributed fMRI Time Series Modeling," American Statistical Association, Baltimore, MD. (August 1, 2017).
- Adrian, D. W. (Presenter & Author), Maitra, R. (Author Only), & Rowe, D. B. (Author Only), Joint Statistical Meetings, "An Assessment of Statistical Models of Complex-Valued fMRI Data," American Statistical Association, Chicago, IL. (August 3, 2016).
- Adrian, D. W., Department Seminar, "An Introduction to Shiny Apps in R with Applications to Statistics Education," Dept of Statistics, Grand Valley State University, Allendale, MI. (March 24, 2016).
- Adrian, D. W., 15th Annual Teaching and Learning with Technology Symposium, "Creating Apps for Teaching and Learning Statistics," Instructional Design for eLearning, Grand Valley State University, Allendale, MI. (March 23, 2016).
- Adrian, D. W., Math In Action, "Create your own math apps," Dept of Mathematics, Grand Valley State University, Allendale, MI. (February 27, 2016).
- Adrian, D. W. (Presenter & Author), Maitra, R. (Author Only), & Rowe, D. B. (Author Only), Joint Statistical Meetings, "Improved activation detection via complex-valued AR(p) model for fMRI voxel time series," American Statistical Association, Seattle, WA. (August 11, 2015).
- Adrian, D. W., Department Seminar, "Functional MRI data analysis: Ricean and Gaussian modeling of voxel time series," Dept of Statistics, Grand Valley State University, Allendale, MI. (March 12, 2015).
- Adrian, D. W., Lamas, A. C., Abreu, D. A., Wang, S., & Young, L. J., Federal Committee on Statistical Methodology (FCSM) Research Conference, "Incorporating missclassification into capture-recapture methodology in the 2012 Census of Agriculture," FCSM, Washington DC. (November 6, 2013).
- Adrian, D. W., Fourth International Conference on Establishment Surveys (ICES-IV), "Model-based forecasting of corn and soybean yields," American Statistical Association, Montreal, Canada. (June 12, 2012).
- Adrian, D. W., Administrator's Day at Research and Development Division, "Model-based forecasting of corn and soybean yields," National Agricultural Statistics Service, Fairfax, VA. (May 2012).
- Adrian, D. W., Department Seminar, "Improved activation detection via complex-valued AR(p) modeling for fMRI voxel time series," Dept of Statistics, Iowa State University, Ames, IA. (October 24, 2011).
- Adrian, D. W., Seminar, "Statistical detection of neural activation via complex-valued functional MRI data," Mathematica Policy Research, Washington DC. (April 2011).

Adrian, D. W., Seminar, "Statistical detection of neural activation via complex-valued functional MRI data," Research and Development Division, National Agricultural Statistics Service, U.S. Dept of Agriculture, Fairfax, VA. (April 2011).

Adrian, D. W., Seminar, "Statistical detection of neural activation via complex-valued functional MRI data," U.S. Census Bureau, Suitland, MD. (April 2011).

Maitra, R. (Author Only), Rowe, D. B. (Author Only), & Adrian, D. W. (Presenter & Author), Joint Statistical Meetings, "Estimating parameters for Rice-distributed time series observations with applications to fMRI data," American Statistical Association, Vancouver, Canada. (August 5, 2010).

Adrian, D. W. (Presenter (Poster)), Maitra, R., & Rowe, D. B., Fifth International Workshop on the Statistical Analysis of Neuronal Data (SAND5), "Time series models for computing activation in fMRI," University of Pittsburgh, Pittsburgh, PA. (May 2010).

Adrian, D. W. (Presenter (Poster)), Conference Celebrating 75 Years of Statistics at Iowa State, "Estimating parameters for Rice-distributed time series observations with applications to fMRI data," Dept of Statistics, Iowa State University, Ames, IA. (June 2009).

Adrian, D. W., Department Seminar, "Regression analysis of call center data," Division of Statistics, Northern Illinois University, DeKalb, IL. (February 2007).

## **Editorial Activity**

Editor/Co-Editor For Individual Issue Of Scholarly Journal, "Journal of Statistics Education", American Statistical Association, Alexandria, VA, USA, 3, Journal Article Submission. (August 11, 2021).

Editor/Co-Editor For Individual Issue Of Scholarly Journal, "Journal of Statistics Education", American Statistical Association, Alexandria, VA, USA, 3, Journal Article Peer Reviewer, Journal of Statistics Education. (April 30, 2019).

Editor/Co-Editor For Individual Issue Of Scholarly Journal, "Sankhya, the Indian Journal of Statistics (Series A)", Springer India, 2, Journal Article Submission, Sankhya, the Indian Journal of Statistics (Series A). (March 12, 2017).

Editor/Co-Editor For Individual Issue Of Scholarly Journal, "Journal of Statistics Education", American Statistical Association, Alexandria, VA, USA, 3, Journal Article Peer Reviewer, Journal of Statistics Education. (October 25, 2015).

## **TEACHING**

### **Teaching Experience**

#### **Grand Valley State University**

STA 215, Intro Applied Statistics, 14 courses.

STA 216, Intermediate Applied Stats, 15 courses.

STA 315, Design of Experiments, 8 courses.

STA 321, Applied Regression Analysis, 3 courses.

STA 610, Appl Stats for Health Prof, 1 course.

STA 621, Exp Design and Regression, 7 courses.

STA 625, Clinical Trials, 1 course.

## **Non-Credit Instruction**

Graduate Assistantship. (August 2021 - April 2022).

Extended class coverage. (October 12, 2017 - December 19, 2017).

## **SERVICE**

### **University Service**

Committee Member, Admissions Committee for Biostatistics Master Program. (September 2019 - Present).

Committee Chair, Awards Committee. (August 2017 - Present).

Task Force Member, Faculty Mentoring Task Force. (September 2019 - December 2019).

Committee Member, Statistics Career Day Committee. (November 15, 2019).

Committee Member, STA 215 Task Force. (October 2018 - July 2019).

Task Force Member, Task force for Revision of Department Personnel Document. (November 2018 - April 2019).

Committee Member, Math in Action. (August 2017 - April 2019).

Task Force Member, Task Force for Development of Proposal for Master's in Applied Statistics. (November 13, 2017 - April 2018).

Committee Member, Assessment Committee. (August 2016 - May 2017).

Task Force Member, Faculty Mentoring Evaluation Task Force. (January 2017 - April 2017).

Task Force Member, Syllabi of Record Task Force. (January 2017 - April 2017).

Task Force Member, General Education Assessment of STA 215. (August 2016 - January 2017).

Task Force Member, Advising Task Force. (2016).

Task Force Member, STA 216 Task Force. (November 2, 2015 - April 11, 2016).

Attendee, Meeting, CLAS Majors Fair. (November 2015).

Committee Member, Statistics Career Day. (November 20, 2015).

Attendee, Orientation, Grand Valley Laker Experience Day. (April 3, 2015).

Section or Program Coordinator, Research Training Grant (RTG) Seminar Coordinator, Dept of Statistics, Iowa State University. (2009 - 2010).

Section or Program Coordinator, Teachers Teaching with Technology (T3) Workshop given by Texas Instruments at Valparaiso University. (December 2003).

### **Professional Service**

Program Organizer, Statistics Alumni Panel, Virtual city, Virtual state. (January 25, 2022).

Keyworker, Combined Federal Campaign, Fairfax, VA. (2012).

## **Public Service**

Committee Chair, Michigan Statistics Poster Competition, Allendale, MI. (August 2016 - Present).

Department Captain, United Way. (October 1, 2018 - October 15, 2018).

Scorer, Region 12 Michigan Science Olympiad, Allendale, MI. (March 2016).

## **Consulting**

Medical, Dr. Andrew Gostine, Northwest Memorial Hospital, Chicago, IL. (January 2016).

## **Development Activities Attended**

Conference Attendance, "useR! 2021: The R Conference," The R Foundation, Virtual city, Virtual state, Virtual country. (July 5, 2021 - July 9, 2021).

Conference Attendance, "USCOTS 2021 (United States Conference on Teaching Statistics)," Consortium for the Advancement of Undergraduate Statistics Education (CAUSE), Virtual city, Virtual state, USA. (June 28, 2021 - July 1, 2021).

Coursework, "Foundations of Online/Hybrid Course Development and Delivery," Pew Faculty Teaching and Learning Center, GVSU, Allendale, MI, USA. (June 1, 2020 - June 28, 2020).

Conference Attendance, "eCOTS 2020 - Electronic Conference on Teaching Statistics," CAUSE - Consortium for the Advancement of Undergraduate Statistics Education. (May 18, 2020 - May 22, 2020).

Workshop, "Stan (+R) Workshop," Calvin College, Grand Rapids, MI, USA. (June 10, 2019 - June 12, 2019).

Webinar, "Roundtable on Data Science Postsecondary Education Meeting #6: Improving Reproducibility by Teaching Data Science as a Scientific Process," National Academies of Sciences, Engineering, and Medicine, Berkeley, CA, USA. (March 23, 2018).

Seminar, "Computationally efficient genome-scale evolutionary inference: creating a sustainable future for African smallholder farmers," The Southwest Michigan Chapter of the American Statistical Association, Grand Rapids, MI, USA. (November 10, 2017).

Conference Attendance, "Big Data Ignite," Grand Rapids, MI, USA. (September 28, 2017).

Seminar, "A Multilevel Bayesian Approach for Modeling the Time-to-Serve in Professional Tennis," The Southwest Michigan Chapter of the American Statistical Association, Grand Rapids, MI, USA. (November 11, 2016).

Workshop, "Data Analytics Workshop," GVSU Stats Department, Allendale, MI, USA. (April 4, 2015 - April 11, 2015).

Conference Attendance, "Fall Dialog on Teaching and Learning," Pew Faculty Teaching and Learning Center, Grand Rapids, MI, USA. (August 20, 2014).

Conference Attendance, "New Faculty Institute," Pew Faculty Teaching and Learning Center,  
Grand Rapids, MI, USA. (August 7, 2014).