

Anne Ryan Driscoll

Virginia Tech Department of Statistics (0439)
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Education:

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|----------|--|----------------|
| May 2011 | Virginia Tech | Blacksburg, VA |
| | Ph.D. in Statistics | |
| | Dissertation: "Surveillance of Poisson and Multinomial Processes." | |
| | Advisor: William H. Woodall | |
| Dec 2007 | Virginia Tech | Blacksburg, VA |
| | M.S. in Statistics | |
| May 2006 | Emory & Henry College | Emory, VA |
| | B.S. in Mathematics and Physics | |
| | GPA: 4.0 | |

Research Interests:

Statistical quality control, healthcare surveillance; design of experiments; industrial statistics; statistics education.

Related Experience:

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| August 2012-Current | Virginia Tech | Blacksburg, VA |
| | Assistant Professor of Practice | |
| | <ul style="list-style-type: none">• Teaching graduate level statistics in research course and undergraduate statistical modeling course• Faculty collaborator for the Laboratory for Interdisciplinary Statistical Analysis (LISA)• Collaborating on a series of research projects with applications in experimental design for the Air Force in a project funded by the Department of Defense• Consulting statistician for the Safety of Composite Overwrapped Pressure Vessels (COPV) Analytical team at NASA | |
| August 2011-Current | Virginia Tech Carilion School of Medicine | Roanoke, VA |
| | Senior Instructor | |
| | <ul style="list-style-type: none">• Teach biostatistics course for first-year medical students• Created biostatistics course materials | |
| August 2011-August 2012 | Virginia Tech | Blacksburg, VA |
| | Visiting Assistant Professor | |
| | <ul style="list-style-type: none">• Faculty collaborator for the Laboratory for Interdisciplinary Statistical Analysis (LISA)• Created continuous learning modules in statistics for the Defense Acquisition University (DAU)• Teaching graduate level statistics in research course | |

June 2008-August 2008

Pratt & Whitney

Hartford, CT

Intern

- Helped create a short-course to be taught to practitioners at Pratt & Whitney explaining computer experimentation
- Learned to use GEMSA/GPMSA, two computer programs used at Pratt & Whitney to perform sensitivity and uncertainty analyses
- Performed literature review of computer experiments

May 2007-August 2007

Minitab Inc.

State College, PA

Technical Support Specialist

- Intensive training in Minitab software
- Answered customers' statistical questions
- Researched various statistical concepts and developed reports for Minitab's Answers Knowledgebase found on Minitab.com

Software Experience:

R software package, SAS, JMP, Minitab, Microsoft Office

Publications:

Ryan, A. G. and Woodall, W. H. (2010). "Control Charts for Poisson Count Data with Varying Sample Sizes". *Journal of Quality Technology* 42, pp. 260-275.

Ryan, A. G.; Wells, L. J.; and Woodall, W. H. (2011). "Methods for Monitoring Multiple Proportions When Inspecting Continuously". *Journal of Quality Technology* 43, pp. 237-248.

Leonardi, A. D.; Keane, N. J.; Bir, C. A.; Ryan, A. G.; Xu, L.; and VandeVord, P. J. (2012). "Head Orientation Affects the Intracranial Pressure Response Resulting from Shock Wave Loading in the Rat". *Journal of Biomechanics*, <http://dx.doi.org/10.1016/j.jbiomech.2012.08.024>.

Freeman, L. J.; Ryan, A. G.; Kensler, J. L.; Dickinson, R. M.; and Vining, G. G. (2013). "A Tutorial on the Planning of Experiments". *Quality Engineering*, 25(4), pp. 315-332.

Leonardi, A. D.; Keane, N. J.; Hay, K.; Ryan, A. G.; Bir, C. A.; and VandeVord, P. J. (2013). "Methodology and Evaluation of Intracranial Pressure Response in Rats Exposed to Complex Shock Waves". *Annals of Biomedical Engineering*, 41(12), 2488-2500.

Dickinson, R. M.; Olteanu Roberts, D. A.; Ryan, A. G.; Woodall, W. H.; and Vining, G. G. (2014). "CUSUM Charts for Monitoring the Characteristic Life of Censored Weibull Lifetimes". *Journal of Quality Technology* 46, pp. 340-358.

Woodall, W. H. and Driscoll, A. R. (2015). "Some Recent Results on Monitoring the Rate of a Rare Event", *Frontiers in Statistical Quality Control 11*. Knoth, S. and Schmid, W. (Eds.), Springer, pp. 15-27.

Zhao, M. J. and Driscoll A. R. (2015). "The c -Chart with Bootstrap Adjusted Control Limits to Improve Conditional Performance". To appear in *Quality and Reliability Engineering International*.

Presentations:

“Control Charts for Poisson Count Data with Varying Sample Sizes,” Joint Research Conference on Statistics in Quality, Industry, and Technology, Gaithersburg, MD, May 2010

“Control Charts for Poisson Count Data with Varying Sample Sizes,” Virginia Tech Corporate Partners Event, Blacksburg, VA, October 2010

“A CUSUM Chart for Monitoring Multiple Proportions When Inspecting Continuously,” Quality and Productivity Research Conference, Roanoke, VA, June 2011

“A CUSUM Chart for Monitoring Multiple Proportions When Inspecting Continuously,” Virginia Tech Statistics Department Colloquium, Blacksburg, VA, February 2011

“The c-chart with Bootstrap Adjusted Control Limits to Improve Conditional Performance”, International Symposium on Statistical Process Monitoring – 4, Padua Italy, July 2015

“The c-chart with Bootstrap Adjusted Control Limits to Improve Conditional Performance”, Columbian Symposium in Statistics, Armenia Columbia, August 2015

Honors:

Carroll B. Shannon College of Science Certificate of Teaching Excellence, Virginia Tech 2015

“Favorite Faculty” Award hosted by Housing and Residence Life, Virginia Tech, 2014

Jesse C. Arnold Award for Excellence in Teaching, Virginia Tech, 2010-2011

Rose Costain Award for Outstanding Departmental Citizenship, Virginia Tech, 2010

Ellis R. Ott National Scholarship, 2010

Joint Research Conference Student Scholarship, 2010

Minitab Fellowship, 2006-2007

Snavelly Senior Prize (Highest GPA in Senior Class), Emory & Henry College, 2006

Byars Medal in Science (Highest GPA in Science), Emory & Henry College, 2006

Intercollegiate Tennis Association Scholar-Athlete, 2004, 2005

Professional Memberships:

American Society for Quality, 2011-present

American Statistical Association, 2007-present

Mu Sigma Rho Honor Society, President, 2008-2009; Vice President, 2010-2011

Professional Service:

American Society for Quality (ASQ), 2016, Chair Elect-Chemical and Process Industries Division

American Society for Quality (ASQ), 2014-2015, Treasurer-Chemical and Process Industries Division

American Society for Quality (ASQ), 2014-2015, Conference Short Course Chair- Statistics Division

Referee, *Journal of Quality Technology*; *Statistics and Probability Letters*; *Communications in Statistics*, *International Journal of Production Economics*, *Quality and Reliability Engineering International*

Member of Conference Organizing Committee, 2011 Quality and Productivity Research Conference