

## EDUCATION

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- Present**                      **University of South Carolina | Columbia, SC**
- *Degree:* Ph.D. in Biostatistics
- 2012 – 2014**                      **Brown University | Providence, RI**
- *Degree:* Sc.M. in Biostatistics
  - *Courses:* Regression; Inference; Statistical Computing; Multivariate Analysis; GLM; Survival Analysis; Statistical Consulting.
  - *Thesis:* Possible Pitfalls of Cumulative Sum Charts and Funnel Plots in Monitoring Clinical Performance and Outcomes.
- 2007 – 2011**                      **Providence College | Providence, RI**
- *Degree:* B.A. in Global Studies and Spanish Language, Summa Cum Laude
  - *Study Abroad:* Universitat Pompeu Fabra Courses and Red Cross Internship, Barcelona, Spain, Fall 2009 - Spring 2010.
  - *Thesis:* Immigration Policy in Europe – Comparison of EU and non-EU immigration policies and impacts on migrants.
  - *Languages:* Fluency in English, French, Spanish (*verbal and written*) and Serbo-Croatian (*verbal*).

## PROFESSIONAL EXPERIENCE

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- 2018 – present**                      **Research Assistant | Rural & Minority Health Research Center**
- Conduct end-to-end analysis that includes data processing, analysis, manuscript writing, and presentations.
- 2017 – 2018**                      **Data Scientist | Amgen**  
*Process Development – Data Science Team*
- Solved difficult, non-routine analysis problems, applying advanced analytical methods on large complex datasets.
  - Partnered to develop and implement analysis, forecasting, and optimization methods to improve the quality of Amgen's processes.
- 2014 – 2016**                      **Data Scientist; Data Science Lead | Celmatix**  
*R&D Department – Data Science Team*
- Led commercial projects, research, and product development from technical and managerial perspectives.
  - Developed optimal statistical/machine learning models for groundbreaking predictive software in the field of fertility as well as calibrated and validated these models against the established body of science and commercial expectations.
  - Managed a team of data scientists, data engineers, and product managers in extensive cross-departmental projects.
  - Conducted research and submitted manuscripts to journals and conferences, thereby maintaining the company's strong presence in academia.

2012 – 2014

**Research Assistant | Brown University**

*Center for Evidence Synthesis*

- Doubled execution speed of Markov Chain Monte Carlo simulations by interfacing R with Gibbs Samplers and outsourcing computations to the High Performance Computing cluster through bash scripting.
- Assumed responsibility for programming statistical analyses and models upon unexpected absence of supervisor and delivered results earlier than anticipated deadlines.

2011 – 2012

**Research Assistant | Lifespan**

*Rhode Island Hospital*

- Oversaw and strengthened data collection methods, introduced databases and a data processing and cleaning system.

## TECHNICAL EXPERIENCE

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### Publications

- **Zgodic A**, Schmid CH, Olkin I, Trikalinos TA (2018). Implications of Different Evidence-Summaries for Contextualizing and Interpreting Findings of Meta-Analysis. *[Submitted]*
- Dahabreh IJ, Adam GP, Halladay CW, Steele DW, Daiello LA, Wieland LS, **Zgodic A**, Smith BT, Herliczek TW, Shah N, Trikalinos TA (2015). Diagnosis of Right Lower Quadrant Pain and Suspected Acute Appendicitis. Agency for Healthcare Research and Quality (US). Report No.: 15(16)-EHC025-EF. Pubmed ID: 27054223.
- Trikalinos TA, Wieland LS, Adam GP, **Zgodic A**, Ntzani EE (2014). Meta-Analysis of Decision Aids for Cancer Screening and Treatment. Agency for Healthcare Research and Quality (US). Report No.: 15-EHC002-EF. Pubmed ID: 25632492.

### Conferences and Seminars

- *[Oral]* Maximizing the Potential of Big Data in Biopharmaceutical Manufacturing Monitoring and Predicting. *May 2018*: MIT Center for Biomedical Innovation's Data Analytics in Biomanufacturing Workshop.
- *[Oral]* Maximizing the Potential of Manufacturing Data to Advance Biopharmaceutical Production. *April 2018*: Interphex.
- *[Oral]* AMH Level is a Risk Marker of Miscarriage. *July 2016*: European Society of Human Reproduction and Embryology.
- *[Oral]* Patient Treatment Journeys: 10 Years of Progress? *October 2015*: American Society for Reproductive Medicine.
- *[Oral]* Implications of Different Evidence-Summaries for Contextualizing and Interpreting Findings of Meta-Analysis. *August 2014*: Joint Statistical Meetings, American Statistical Association Conference.
- *[Oral]* Implications of Different Evidence-Summaries for Contextualizing and Interpreting Findings of Meta-Analysis. *January 2014*: Brown University Seminar Series.
- *[Poster]* Possible Pitfalls of Cumulative Sum Charts and Funnel Plots in Monitoring Clinical Performance and Outcomes. *May 2014*: Atlantic Causal Inference Conference.
- *[Poster]* Possible Pitfalls of Cumulative Sum Charts and Funnel Plots in Monitoring Clinical Performance and Outcomes. *April 2013*: Brown University Public Health Research and Data Day.

### Programming Languages and Technologies

- R, Stan, BUGS, JAGS, High-Performance Computing, Stata, SAS, bash, LaTeX, C++, SQL, Python, Tableau, Spotfire.