Ryan Wesslen

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EDUCATION

University of North Carolina at Charlotte

■ Ph.D. Candidate in Computing & Information Systems

Aug 2016 – Present

- Concentration: Computer science
- Research Areas: Computational social science, text-as-data, visual analytics, cognitive science.
- M.S. in Data Science & Business Analytics

Aug 2014 – May 2016

New York University

M.A. in Economics

Aug 2007 – May 2011

North Carolina State University

• M.S. in Financial Mathematics

May 2008 - Aug 2009

University of North Carolina at Chapel Hill

• B.A. in Economics (Highest Honors), Minor in Mathematics

Aug 2003 - May 2007

■ Thesis: "An Endogenous Dynamic General Equilibrium Model of Fertility for England 1881-1931" (pdf)

PROFESSIONAL EXPERIENCE

Publicis Hawkeye, Data and Analytics Group

Senior Marketing Analyst

Jun 2014 – Jun 2015

- Terminix: End-to-end marketing analytics for direct (DM & Email), digital (SEO & SEM) and partner channels.
- Bank of America: Lead generation strategy from web behavior analytics for loan, deposit and brokerage products.
- LG: Email targeting model and strategy for product registration.

Bank of America, Dealer Financial Services Retail Analytics and Modeling

Vice President, Consumer Product Strategy Analyst III

Aug 2013 – Jun 2014

• Credit scorecard acquisition modeling for \$20BN+ auto, marine, RV and aircraft lending business.

Bank of America, Small Business Credit Risk Governance

Assistant Vice President, Risk Analysis Senior Specialist

Jun 2011 – Aug 2013

 Credit risk management for \$10BN+ small business card account management, risk detection, payment, stimulation and retention strategies.

Bank of America, Global Risk Management Associate Program

Global Risk Management Associate

Jun 2009 - Jun 2011

- Two year rotational management program within the Global Risk organization.
- Counterparty credit exposure modeling for multiple derivative asset classes (equity, FX, credit, rates, commodities).
- Credit risk reporting & analytics for US Consumer Card, Small Business, Europe and Practice Solutions portfolios.

PUBLICATIONS

PEER REVIEWED

- G. Banks, H. Woznyj, <u>R. Wesslen</u>, K. Frear, G. Berka, H. Gordon, and E. Heggestad. "Strategic Recruitment Across Borders: An Investigation of Multinational Enterprises," *Journal of Management*, Aug 2018. (pdf)
- S. Levens, O. Eltayeby, B. Aleshire, S. Nandu, T. Gallicano, R. Wesslen, and S. Shaikh. "Using Information Processing Strategies to Predict Contagion of Social Media Behavior: A Theoretical Model," *In 9th International Conference on Applied Human Factors and Ergonomics (AHFE 2018)*, Jul 2018. (pdf)
- A. Karduni, R. Wesslen, S. Santhanam, I. Cho, S. Volkova, D. Arendt, S. Shaikh, and W. Dou. "Can You Verifi This? Studying Uncertainty and Decision-Making about Misinformation in Visual Analytics," *In 12th International AAAI Conference of Web and Social Media (ICWSM)*, Jun 2018. (16% Acceptance Rate) (pdf) (GitHub)
- R. Wesslen, S. Nandu, O. Eltayeby, T. Gallicano, S. Levens, M. Jiang, and S. Shaikh. "Bumper Stickers on the Twitter Highway: Analyzing the Speed and Substance of Profile Changes," *In 12th International AAAI Conference of Web and Social Media (ICWSM, short paper)*, Jun 2018. (pdf) (GitHub)

- G. Banks, H. Woznyj, <u>R. Wesslen</u>, and R. Ross, "A Review of Best Practice Recommendations for Text Analysis in R (and a User Friendly App)," *Journal of Business and Psychology*, Jan 2018. (pdf) (GitHub) (Dataverse)
- I. Cho, R. Wesslen, A. Karduni, S. Santhanam, S. Shaikh, and W. Dou, "The Anchoring Effect in Decision-Making with Visual Analytics," *In Visual Analytics Science and Technology (VAST)*, 2017 IEEE Conference, Oct 2017. (pdf) (GitHub)
- I. Cho, R. Wesslen, S. Volkova, W. Ribarsky, and W. Dou, "CrystalBall: A Visual Analytic System for Future Event Discovery and Analysis from Social Media Data," *In Visual Analytics Science and Technology* (VAST), 2017 IEEE Conference, Oct 2017. (pdf)
- R. Wesslen, T. Gallicano, J.C. Thill, and S. Nandu, "Hot issue publics on Twitter: Analyzing Charlotte protests with computer-assisted text analysis," *In 2017 International Conference on Computational Social Science (IC2S2)*, Jul 2017. (presentation)
- T. Gallicano, <u>R. Wesslen</u>, and J.C. Thill, "From cluster tweets to retweets: A big data, rhetorical exploration of digital social advocacy in the context of the Charlotte protests on Twitter," *In Proceedings of 2017 International Public Relations Research Conference*, Mar 2017. (pdf)

WORKING PAPERS

- R. Wesslen. "Computer-Assisted Text Analysis for Social Science: Topic Models and Beyond," Mar 2018. (pdf)
- R. Wesslen, S. Santhanam, A. Karduni, I. Cho, S. Shaikh, and W. Dou. "Investigating Effects of Visual Anchors on Decision-Making about Misinformation," Sep 2018.
- A. Karduni, I. Cho, <u>R. Wesslen</u>, S. Santhanam, S. Volkova, D. Arendt, S. Shaikh, and W. Dou. "Vulnerable to Misinformation? Verifi!" Oct 2018.
- D. Arendt, E. Saldanha, <u>R. Wesslen</u>, S. Volkova, and W. Dou. "Towards Rapid Interactive Machine Learning: Evaluating Tradeoffs of Classification without Representation," Sep 2018.

RESEARCH EXPERIENCE

Pacific Northwest National Laboratory, Analysis in Motion Initiative

• Research Assistant (with W. Dou)

Jul 2017 – Present

• Research collaboration with two PNNL researchers (S. Volkova and D. Arendt) on misinformation in social media using natural language processing, visual analytics, and image recognition.

University of North Carolina at Charlotte, Project Mosaic

■ Research Assistant

Jan 2016 – Dec 2017

- $\bullet \ \ Research\ collaborations\ with\ faculty\ in\ management,\ communications,\ geography,\ and\ organizational\ science.$
- UNCC faculty co-authorship and research abstract analysis with topic modeling and social network analysis.

University of North Carolina at Charlotte, Data Science Initiative

■ Research Assistant

Jan 2016 – May 2017

Sep 2016 – present

- Management of GNIP Twitter firehose and providing 15+ faculty and graduate students data access.
- Tutorials and one-on-one guidance for faculty and researchers to analyze social media.

TEACHING EXPERIENCE

University of North Carolina at Charlotte, Project Mosaic & Data Science Initiative

- Guest Lectures on Visualizations in R for DSBA 5122 (Visual Analytics)
 Two part guest lectures for Visual Analytics course for my advisor's ongoing course.
- Summer 2018 Interactive Visualizations with RStudio Workshop (GitHub) Jul 2018 Aug 2018
 - Three part workshop series for UNCC Data Science students to learn RStudio interactive visualizations using tidyverse, Shiny, and htmlwidgets.
- Fall 2017 Workshops in Computational Social Science with R (GitHub) Aug 2017 Dec 2017
 - Ten week workshop series in computational social science.
 - R fundamentals, tidyverse, visualizations, social media, machine learning, social networks, and text-as-data.
- Summer 2017 Social Media Workshop Series (GitHub)

Jul 2017

- Day 1: Social media acquisition (Twitter, Facebook).
- Day 2: Data querying, visualizations, and social networks.
- Day 3: Text-as-data (classification, topic modeling, word embedding).
- Summer 2017 Faculty R Bootcamp (GitHub) (with K. Venkitasubramanian and P. Jung)
 Two day workshop on data management, visualizations, and statistical modeling in R.
- Spring 2017 Workshops

Jan 2017 – May 2017

• Introduction to Topic Modeling with R (March 2017) (GitHub)

- Accessing Twitter datasets on SOPHI with PySpark and Spark SQL (Feb 2017)
- Two Part Seminar Series: Social Media Data for Social Science Faculty (April 2017) (Part1) (Part2)
- Fall 2016 Workshops

Aug 2017 – Dec 2017

- Twitter Data Acquisition via Twitter's Public API and R (Oct 2016)
- Three day workshop on Twitter Text Analytics for Social Sciences (Sept 2016) (GitHub)
- Spring 2016 Workshops

Jan 2017 – May 2017

- Twitter Analytics for Social and Health Sciences (April 2016).
- Text Mining Analytics for Social Science Research with R (March 2016)

University of North Carolina at Chapel Hill, Department of Economics

Undergraduate Teaching Assistant for Economics 101.

Aug 2005 – May 2007

- Lead nightly review sessions for 30+ students.
- · Lead recitation section reinforcing lecture, quiz and test materials.

AWARDS

- 2017 International Public Relations Research Conference (with T. Gallicano and J.C. Thill). Mar 2017 Boston University Award for Top Paper in Public Relations and the Social & Emerging Media.
- 2016 International Computational Social Science Conference (with N. Sircar and Z. Fu)
 2nd place in Datathon: "U.S. Election 2016: An Outsider's Cycle?"
- University of North Carolina at Chapel Hill
 Chancellor's Award for 2006-2007 UNC Chapel Hill Undergraduate Prize in Economics.

May 2007

PROFESSIONAL AFFILIATIONS

Global Association of Risk Professionals (GARP),

Certified Financial Risk Manager Program (FRM)

2011 - Present

SKILLS

R / R Studio (tidyverse), RMarkdown, Shiny, Git, Python, PySpark, Word/Excel/PowerPoint, Docker, UNIX, Linux/Ubuntu, SQL, SAS (Base/EG/Jmp), Matlab, C++, STATA, EViews.