

CURRICULUM VITAE

NAME	TITLE
David G. Dobołyi	PhD

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
University of Virginia	PhD	2015	Cognitive Psychology
University of Virginia	MA	2012	Cognitive Psychology
University of Maryland, College Park	BA	2007	English Language and Literature

Work Experience

Research Assistant Professor

McIntire School of Commerce
University of Virginia
2018 - Present

- Conducted and contributed to research projects and applied to grants (e.g., see Amazon Research Awards 2019 [live demo](#) and [source code](#) on GitHub)
- Developed and taught new course offerings including Business Analytics with R (see my [R Bootcamp Materials](#) on GitHub), MSBA Databases & BI, and MSBA Capstone I: Solution Design
- Served as MSBA Module 5 coordinator
- Continued supervising student-led research as part of the Deloitte Foundation Analytics Scholars Program (see [here](#) for details)

Faculty Research Scientist

McIntire School of Commerce
University of Virginia
2015 - 2018

- Assisted colleagues with research projects and teaching
- Supported the Center for Business Analytics, including designing, developing, and maintaining on-premise and cloud-based research infrastructure (e.g., AWS, Azure)
- Taught existing courses and developed new ones (e.g., Data Analytics in the Mobile App Domain Using R)

Teaching Experience

Semester	Course	Role	Title	Instr. Rating (1-5)
Fall 2019	COMM 4559-01	Instr.	Business Analytics with R	4.75
Summer 2019	GBAC 7218	Instr.	Capstone Project I: Solution Design	5.00
Spring 2019	GCOMM 7240	Co-Instr.	Advanced Quantitative Analytics	4.38
Spring 2019	GBAC 7212	Instr.	Databases & BI	4.48
Fall 2018	COMM 4559-05	Instr.	Business Analytics with R	4.77
Spring 2018	COMM 3220	Instr.	Database Management Systems and BI	4.58, 4.40
Spring 2018	GCOMM 7240	Co-Instr.	Advanced Quantitative Analytics	4.52
Fall 2017	COMM 3220	Instr.	Database Management Systems and BI	4.41
Spring 2017	COMM 3220	Instr.	Database Management Systems and BI	4.65, 4.39
Spring 2017	GCOMM 7240	Co-Instr.	Advanced Quantitative Analytics	4.58
Summer 2016	COMM 2559-01	Instr.	Data Analytics in the Mobile App Domain Using R	5.00

Research Interests

- Ethics & AI
- Big Data Analytics & Machine Learning
- Natural Language Processing
- Quantitative Modeling
- Eyewitness Memory, Healthcare, & Cybersecurity

Published Research Articles

1. Ahmad, F., Abbasi, A., Li, J., Dobolyi, D.G., Netemeyer, R.G., Clifford, G.D., & Chen, H. (2020). A Deep Learning Architecture for Psychometric Natural Language Processing. *ACM Transactions on Information Systems (TOIS)*. 38(1), 1-29.
2. Netemeyer, R.G., Dobolyi, D.G., Abbasi, A., Clifford, G., & Taylor, H. (2019). Health Literacy, Health Numeracy, and Trust in Doctor: Effects on Key Patient Health Outcomes. *Journal of Consumer Affairs*.
3. Grabman, J.H., Dobolyi, D.G., Berelovich, N.L., & Dodson, C.S. (2019). Predicting High Confidence Errors in Eyewitness Memory: The Role of Face Recognition Ability, Decision-Time, and Justifications. *Journal of Applied Research in Memory and Cognition*. 8(2), 233-243.
4. Dobolyi, D.G., & Dodson, C.S. (2018). Actual vs. perceived eyewitness accuracy and confidence and the featural justification effect. *Journal of Experimental Psychology: Applied*. 24(4), 543-563.
5. Kitchens, B., Dobolyi, D., Li, J., & Abbasi, A. (2018). Advanced Customer Analytics: Strategic Value Through Integration of Relationship-Oriented Big Data. *Journal of Management Information Systems*. 35(2), 540-574.
6. Dodson, C.S., & Dobolyi, D.G. (2017). Judging guilt and accuracy: highly confident eyewitnesses are discounted when they provide featural justifications. *Psychology, Crime & Law*. 23(5), 487-508.
7. Claassen, D.O., Dobolyi, D.G., Isaacs, D.A., Roman, O.C., Herb, J., Wylie, S.A., Neimat, J.S., Donahue, M.J., Hedera, P., Zald, D.H., Landman, B.A., Bowman, A.B., Dawant, B.M., & Rane, S. (2016). Linear and Curvilinear Trajectories of Cortical Loss with Advancing Age and Disease Duration in Parkinson's Disease. *Aging and Disease*. 7(3), 220-229.
8. Dodson, C.S., & Dobolyi, D.G. (2016). Confidence and Eyewitness Identifications: The Cross-Race Effect, Decision-Time and Accuracy. *Applied Cognitive Psychology*. 30(1), 113-125.
9. Tolleson, C.M.,* Dobolyi, D.G.,* Roman, O.C., Kanoff, K., Barton, S., Wylie, S.A., Kubovy, M., & Claassen, D.O. (2015). Dysrhythmia of Timed Movements in Parkinson's Disease and Freezing of Gait. *Brain Research*. 1624, 222-231. *Authors contributed equally
10. Open Science Collaboration. (2015). Estimating the Reproducibility of Psychological Science. *Science*. 349 (6251), aac4716.
11. Willingham, D.T., Hughes, E.M., & Dobolyi, D.G. (2015). The Scientific Status of Learning Styles Theories. *Teaching of Psychology*. 42(3), 266-271.
12. Dodson, C.S., & Dobolyi, D.G. (2015). Misinterpreting eyewitness expressions of confidence: The featural justification effect. *Law and Human Behavior*. 39(3), 266-280. ([live demo](#))
13. Dobolyi, D.G., & Dodson, C.S. (2013). Eyewitness Confidence in Simultaneous and Sequential Lineups: A Criterion Shift Account for Sequential Mistaken Identification Overconfidence. *Journal of Experimental Psychology: Applied*. 19(4), 345-357. ([live demo](#))

Research Articles in Progress

1. (with Abbasi, A., Vance, T., and Zahedi, F.M.) "The Phishing Funnel Model: A Design Artifact to Predict User Susceptibility to Phishing Websites." Submitted to *Information Systems Research*. Currently in preparation for 3rd round of review due Dec 2019.
2. (with Dodson, C.S., Gettleman, J.N., and Grabman, J.H.). "Why Eyewitness Confidence is Predictive of Accuracy for Good (but Not Poor) Face Recognizers under Suboptimal Exposure and Delay Conditions." Submitted to *Journal of Experimental Psychology: Learning, Memory, and Cognition* in Sep 2019. Currently awaiting reviews.
3. (with Abbasi, A., Chen, Y., and Zahedi, F.M.) "Trust Calibration of Security IT Artifacts: A Mutli-Domain Study of Fake-Website Detection Tools." Rejected from *Journal of Management Information Systems* during 3rd round. Revision sent to Information & Management in Nov 2019.
4. (with Dodson, C.S. and La Fleur, C.G.) "Correct or just confident? The opposite effects of retrieval practice on accuracy and retrieval monitoring." Rejected from *Psychonomic Bulletin & Review* in Jun 2019. Currently working on a revision.

Research Work in Progress

1. (with Abbasi, A., Dodson, C.S., and Grabman, J.H.). “Fair Applications of Facial Recognition in Law Enforcement.” Grant application submitted to *Amazon Research Awards (2019)* in Oct 2019 (see [live demo](#) and [source code](#) on GitHub). Currently awaiting decision.
2. (with Wright, R.T.). Survey-based research project in conjunction with the US Census Bureau. Currently developing materials (as of Nov 2019).
3. (with Abbasi, A. and Wright, R.T.). “Systematizing Confidence in Open Research and Evidence (SCORE)” with Center for Open Science (COS) and DARPA. Currently developing materials (as of Nov 2019).
4. (with Lichtenstein, D., Lynch, J.G., and Netemeyer, R.). Research project investigating the relationship between financial and physical health, including a collaboration with Ipsos. Currently running/designing experiments (as of Nov 2019).

Conference Proceedings

1. Dobolyi, D.G., Abbasi, A., Zahedi, F.M. & Vance, T. (2017). The Phishing Funnel Model: Predicting User Susceptibility to Phishing Websites. In the 2017 INFORMS Workshop on Data Science at Houston, Texas.
2. Abbasi, A., Dobolyi, D.G., Zahedi, F.M. & Vance, T. (2017). The Phishing Funnel Model: Predicting User Susceptibility to Phishing Websites. In the 2017 Winter Conference on Business Analytics at Snowbird, Utah.
3. Dobolyi, D.G., & Abbasi, A. (2016). “PhishMonger: A free and open source public archive of real-world phishing websites.” In the 2016 IEEE Conference on Intelligence and Security Informatics (ISI), Tucson, AZ, 2016, pp. 31-36. doi: 10.1109/ISI.2016.7745439

Oral Presentations

1. Dobolyi, D.G., Abbasi, A., Zahedi, F.M. & Vance, T. (2017). The Phishing Funnel Model: Predicting User Susceptibility to Phishing Websites. Presented at 2017 INFORMS Workshop on Data Science at Houston, Texas.
2. Abbasi, A., Dobolyi, D.G., Zahedi, F.M. & Vance, T. (2017). The Phishing Funnel Model: Predicting User Susceptibility to Phishing Websites. Presented at 2017 Winter Conference on Business Analytics at Snowbird, Utah.
3. Dobolyi, D.G. & Abbasi, A. (2016). PhishMonger: A Free and Open Source Public Archive of Real-World Phishing Websites. Presented at 2016 IEEE Conference on Intelligence and Security Informatics (ISI) at the University of Arizona.
4. Dobolyi, D.G., & Kubovy, M. (2015). GameMaps: Using Big Data to Understand Enjoyment. Presented at 2015 Robert J. Huskey Research Exhibition at the University of Virginia.
5. Dobolyi, D.G., & Kubovy, M. (2015). GameMaps: Using Big Data to Understand Enjoyment. Presented at 2015 Graduate Research Symposium at the College of William & Mary.
6. Dobolyi, D.G., & Kubovy, M. (2015). GameMaps: Using Big Data to Understand Enjoyment. Presented at 2015 Annual North Carolina Cognition Conference at Elon University.
7. Dobolyi, D.G., & Dodson, C.S. (2014). Misinterpretation of Eyewitness Confidence: The Justification Effect. Presented at 2014 Robert J. Huskey Research Exhibition at the University of Virginia.
8. Dodson, C.S., & Dobolyi, D.G. (2014). Misinterpreting Expressions of Eyewitness Confidence: The Justification Effect. Presented by Dobolyi, D.G. at 2014 Annual North Carolina Cognition Conference at Duke University.
9. Dobolyi, D.G. (2013). Measures of the Confidence-Accuracy Relationship: An Investigation of Power. Presented at 2013 Spring LIFE Academy Conference at the University of Michigan, Ann Arbor.
10. Dobolyi, D.G. (2013). Measures of the Confidence-Accuracy Relationship: A Simulation Study of Exactness and Power. Presented at 2013 Robert J. Huskey Research Exhibition at the University of Virginia.
11. Dobolyi, D.G., & Dodson, C.S. (2012). Eyewitness Memory: Examining the Effect of Lineup Format on Same vs. Cross-Race Identification. Presented at 2012 Robert J. Huskey Research Exhibition at the University of Virginia.

- Dobolyi, D.G., & Dodson, C.S. (2012). Eyewitness Memory: Examining the Effect of Lineup Format on Same vs. Cross-Race Identification. Presented at 2012 Annual North Carolina Cognition Conference at the University of North Carolina, Chapel Hill.

Poster Presentations

- Dobolyi, D.G. & Abbasi, A. (2016). PhishMonger: A Free and Open Source Public Archive of Real-World Phishing Websites. Poster presented at 2016 IEEE Conference on Intelligence and Security Informatics (ISI) at the University of Arizona.
- Dobolyi, D.G., & Dodson, C.S. (2013). Confidence and Eyewitness Identification: Does the Choice of Scale Matter? Poster presented at 2013 Presidential Poster Competition, Charlottesville, VA.
- Dobolyi, D.G., & Dodson, C.S. (2012). Confidence and Eyewitness Identification: Does the Type of Scale Matter? Poster presented at 2012 Annual Psychonomic Society, Minneapolis, MN.
- Dobolyi, D.G., & Dodson, C.S. (2012). Confidence and Eyewitness Identification: Does the Type of Scale Matter? Poster presented at 2012 Fall LIFE Academy Conference, Charlottesville, VA.
- Dobolyi, D.G. (2012). Eyewitness Lineups: Examining the Effect of Lineup Race on Lineup Format. Poster presented at 2012 APS Conference, Chicago, IL.
- Dobolyi, D.G., & Dodson, C.S. (2012). Now You See Me and Now You See Me Again: Investigating Source Confusion and High Confidence Errors for Mugbook Presentations in Younger and Older Adults. Poster presented at 2012 Spring LIFE Academy Conference at the Max Planck Institute, Berlin, Germany.
- Dobolyi, D.G., & Dodson, C.S. (2011). Eyewitness Lineups: Examining the Effect of Lineup Race on Lineup Format. Poster presented at 2011 Annual Psychonomic Society, Seattle, WA.

Graduate School Research Experience

Dodson Cognition Lab	<p>Conducted research on eyewitness memory for publication (e.g., what is the best way to conduct a lineup? how do we understand eyewitness confidence?).</p> <ul style="list-style-type: none"> • Developed a custom infrastructure for running mTurk- and lab-based studies (live demo) • Conducted data analyses in <i>R</i> (e.g., mixed-effects modeling, receiver operating characteristic, simulation) • Published journal articles and presented at conferences • Wrote grant applications
Kubovy Perception Lab	<p>Developed <i>GameMaps</i>, a big data project aimed at understanding enjoyment, positivity, and excitement using Twitter and game statistics for the 2013-2014 NBA season.</p> <ul style="list-style-type: none"> • Collected 140+ GB of NBA Twitter Data via Stream API • Wrote an <i>R</i> package to collect, organize, and visualize NBA.com/stats data in combination with Twitter volume • Organized and synchronized data into a single time series and developed a classification of game types • Conducted analyses in <i>R</i> using methods including: regression, cluster analysis, Granger causality, etc. • Presented results at conferences
Jonathan Haidt	<p>Improved access to data on YourMorals.org, a platform for conducting online research about morality. Secondary tasks include creating and supporting various websites.</p> <ul style="list-style-type: none"> • Developed the YMDownloader SPSS Integration Tool • Created studies and curated study databases • Assisted and trained YourMorals.org researchers

	<ul style="list-style-type: none"> • Served as webmaster for EthicalSystems.org, RighteousMind.org, Moral-Foundations.org, CivilPolitics.org, etc.
Daniel Claassen, MD	<p>Conducted data analyses on medical research involving patients with Parkinson's disease and other impairments.</p> <ul style="list-style-type: none"> • Recovered and analyzed problematic data • Conducted multi-model, mixed-effects analysis of time series data using a natural splines approach • Co-authored journal publications
Daniel Willingham	<p>Developed and conducted an online study for education research regarding learning styles.</p> <ul style="list-style-type: none"> • Developed and ran the study on mTurk using a custom-developed platform • Conducted data analyses • Contributed to a published research article

Graduate School Teaching Assistant Experience

2015, 2014	Departmental Statistical Consultant
2014	R Statistics Bootcamp for Incoming Graduate Students
2014, 2013	Quantitative Methods II: Experimental Design (PSYC 7720)
2013, 2012	Quantitative Methods I: Probability and Statistical Inference (PSYC 7710)
2012	Advanced Data Analysis and Research Methods: Mathematical Foundations of Cognitive Psychology (PSYC 4005)
2011	Psychology of Art (PSYC 3559)
2011	Research Methods and Data Analysis II (PSYC 3006)
2010	Introduction to Cognition (PSYC 2150)
2009	Introduction to Perception (PSYC 2300)

Awards and Honors

2015	Robert J. Huskey Research Exhibition – 3rd Place Oral Presentation Award
2014	Collaborative Graduate Student Research in Big Data Pre-Proposal Travel Award
2013	Presidential Poster Competition Winner and Travel Award
2013	Robert J. Huskey Research Exhibition – 2nd Place Oral Presentation Award
2012	Robert J. Huskey Research Exhibition – 1st Place Oral Presentation Award
2011	Fellow, LIFE Academy at the Max Planck Institute in Berlin, Germany

Programming, Statistical, and Technical Skills

Programming, Frameworks, & Markup Languages	R, Python, PHP, Java, JavaScript/jQuery, Node.js, SQL, NoSQL, Cordova, Shiny, Dash, HTML/CSS, LaTeX
Version Control	Git (see my GitHub)
CMS	WordPress, Drupal
Statistics	Machine Learning, Model Comparison, Mixed Effects Modeling, Multivariate Statistics, Structural Equation Modeling, Cluster Analysis, Receiver Operating Characteristic (ROC), Monte Carlo Simulation, Time Series Analysis, Natural Language Processing, Sentiment Analysis
Hardware	PC/Mac Desktop and Laptop Hardware Assembly, Disassembly, and Repair

Languages

English, Hungarian