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CONTACT INFORMATION	Farmer School of Business, Room 3024 Miami University 800 E. High St. Oxford, OH, 45056, USA	arthur.carvalho@miamioh.edu <a href="http://www.arthurcarvalho.info">www.arthurcarvalho.info</a> +1 (513) 529 7162
RESEARCH INTERESTS	Artificial Intelligence, Blockchain, Business Analytics, Decision Analysis, Decision Sciences, Decision Support Systems, Prediction Markets	
TEACHING INTERESTS	Artificial Intelligence, Big Data, Business Analytics, Blockchain, Computer Networks, Database Systems, Information Security	
EDUCATION	<b>Ph.D. in Computer Science</b> University of Waterloo, Canada	August 2014
	<b>M.Math. in Computer Science</b> University of Waterloo, Canada	August 2010
	<b>B.Sc. in Computer Science</b> Federal University of Pernambuco, Brazil	December 2008
PROFESSIONAL EXPERIENCE	<b>Dinesh &amp; Ila Paliwal Innovation Chair</b> Farmer School of Business Miami University, USA	July 2018 - Present
	<b>Associate Professor (Tenured)</b> Farmer School of Business Miami University, USA	July 2022 - Present
	<b>Affiliate Faculty Member</b> Department of Computer Science & Software Engineering Miami University, USA	November 2022 - Present
	<b>Assistant Professor</b> Farmer School of Business Miami University, USA	July 2016 - June 2022
	<b>Assistant Professor</b> Rotterdam School of Management Erasmus University Rotterdam, Netherlands	September 2014 - June 2016
	<b>Research and Teaching Assistant</b> David R. Cheriton School of Computer Science University of Waterloo, Canada	May 2009 - August 2014
	<b>Data Mining Trainee</b> Neurotech Ltda, Brazil	January 2008 - December 2008
	<b>Software Engineering Intern</b> Cemicro Informática, Brazil	September 2006 - November 2006

SERVICE AWARDS & HONORS	<b>Distinguished Member</b>	2024
	Association for Information Systems	
	<b>Creativity &amp; Innovation Award</b>	2022
	Miami University	
	<b>Prodesse Quam Conspici Award</b>	2022
	Miami University	
	<b>Recognition by the Office of Miami University's President<sup>1</sup></b>	2019
	Miami University	
TEACHING AWARDS & HONORS	<b>Outstanding Professor Award (Nominee)</b>	2024
	Miami University Associated Student Government	
	<b>Outstanding Professor Award (Nominee)</b>	2023
	Miami University Associated Student Government	
	<b>Outstanding Professor Award (Nominee)</b>	2022
	Miami University Associated Student Government	
	<b>Outstanding Professor Award (Nominee)</b>	2021
	Miami University Associated Student Government	
	<b>Student Recognition of Teaching Excellence Award (Winner)</b>	2020
	The Office of the Provost, Miami University	
	<b>Richard K. Smucker Teaching Excellence Award (Winner)</b>	2020
	Farmer School of Business	
<b>Outstanding Professor Award (Nominee)</b>	2019	
Miami University Associated Student Government		
<b>Richard K. Smucker Teaching Excellence Award (Nominee)</b>	2019	
Farmer School of Business		
<b>Faculty Commendation (×7)</b>	2017 - 2022	
Center for Teaching Excellence, Miami University		
<b>Professor of the Year Award (Nominee)</b>	2016	
RSM Student Representation		
<b>Professor of the Year Award (Winner)</b>	2015	
RSM Student Representation		
SCHOLARSHIP AWARDS & HONORS	<b>Farmer School of Business Faculty Research Fellow</b>	2023 - 2025
	Farmer School of Business	
	<b>Top 25% Paper</b>	2022
	2022 Americas Conference on Information Systems	
	<b>James Robeson Junior Faculty Research Excellence Award</b>	2022
Farmer School of Business		
	<b>Top 25% Paper</b>	2021
2021 Americas Conference on Information Systems		

<sup>1</sup>I was recognized and awarded a medal by Miami University's president during the One Miami Weekend event for my dedication to the students and university.

	<b>David R. Cheriton Scholarship</b> University of Waterloo	2012 - 2014
	<b>Mathematics Graduate Experience Award</b> University of Waterloo	2010 - 2014
	<b>David R. Cheriton Scholarship</b> University of Waterloo	2010 - 2012
	<b>Summer School on Algorithmic Economics<sup>2</sup></b> Carnegie Mellon University	2012
	<b>AAMAS Student Scholarship</b> International Foundation for Autonomous Agents and Multiagent Systems	2011
	<b>AAMAS Student Scholarship</b> International Foundation for Autonomous Agents and Multiagent Systems	2010
	<b>Graduate Entrance Scholarship</b> University of Waterloo	2009
	<b>PIBIC Scholarship</b> CNPq-Brazil	2007 - 2008
	<b>PIBIC Scholarship</b> CNPq-Brazil	2006 - 2007
GRANT RECORD	<b>Google Cloud Education Credits Program</b> Funding Agency: Google Cloud Role: Sole applicant Value: \$1,600	Spring 2024
	<b>Exploring Cloud-Based Fine-Tuning of Large Language Models</b> Funding Agency: Farmer School of Business (John and Winifred Dolibois Fund) Role: Sole applicant Value: \$6,025	2023
	<b>Google Cloud Education Credits Program</b> Funding Agency: Google Cloud Role: Sole applicant Value: \$2,350	Fall 2023
	<b>Google Cloud Education Credits Program</b> Funding Agency: Google Cloud Role: Sole applicant Value: \$4,100	Spring 2023
	<b>Supporting Big Data Skills Across Departments via Large-Scale Compute-Intensive Data Storage</b> Funding Agency: Miami University (Student Technology Fee Proposal) Role: Co-applicant (together with Dr. Philippe Giabbanelli, Dr. John Femiani, Dr. Xianglong Feng, Dr. Chun Liang, and Dr. Jens Mueller) Value: \$24,148	2022

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<sup>2</sup>I was one of the 13 international students selected to participate in the 2012 Summer School on Algorithmic Economics at Carnegie Mellon University.

<b>EY Cybersecurity Initiative Summer Research Grant</b>	2022
Funding Agency: Farmer School of Business	
Role: Sole applicant	
Value: \$5,000	
<b>Google Cloud Research Credits Program</b>	2021
Funding Agency: Google Cloud	
Role: Sole applicant	
Value: \$5,000	
<b>FSB Summer Research Grant</b>	2021
Funding Agency: Farmer School of Business	
Role: Sole applicant	
Value: \$10,000	
<b>The Blockathon — A Blockchain Hackathon</b>	2019
Funding Agency: Farmer School of Business (Strategic Initiatives Fund)	
Role: Sole applicant	
Value: \$3,6000	
<b>The 2020 MUBC Blockchain Conference</b>	2019
Funding Agency: Miami University (Career Grant Award)	
Role: Sole applicant	
Value: \$2,000	
<b>Blockchain and Business Applications – A New FSB Course</b>	2018
Funding Agency: Farmer School of Business (Strategic Initiatives Fund)	
Role: Sole applicant	
Value: \$15,071	
<b>The 2019 MUBC Blockchain Conference</b>	2018
Funding Agency: Farmer School of Business (John and Winifred Dolibois Fund)	
Role: Co-applicant (together with Patrick Young)	
Value: \$3,200	
<b>Hadoop Infrastructure for Big Data Analytics</b>	2017
Funding Agency: Miami University (Student Technology Fee Proposal)	
Role: Co-applicant (together with Dr. T. M. Rajkumar)	
Value: \$84,000	
<b>A Study on the Strengths and Limitations of IBM Watson Analytics</b>	2017
Funding Agency: Farmer School of Business (John and Winifred Dolibois Fund)	
Role: Sole applicant	
Value: \$2,400	

REFEREED  
JOURNAL  
PUBLICATIONS

- [J1] Carvalho, A., Anderson, C., and Zavolokina, L. “Designing Incentives for Attracting Peer Reviewers to Information System Conferences,” **Communications of the Association for Information Systems**, forthcoming.
- [J2] Almeida, V. A. C. C., Râbelo, R. A. L., Carvalho, A., Floris, A., and Pilloni, V. “On the Impact of Flexibility on Demand-Side Management: Understanding the Need for Consumer-Oriented Demand Response Programs,” **International Journal of Energy Research**, 2024.
- [J3] Anderson, C., Carvalho, A., Kaul, M., and Merhout, J. “*Blockchain Innovation for Consent Self-Management in Health Information Exchanges*,” **Decision Support Systems**, vol. 174, 2023.

- [J4] Grgic, D., Podobnik, V., and Carvalho, A. “*Deriving and Validating Emotional Dimensions from Textual Data,*” **Expert Systems with Applications**, vol. 198, 116721, 2022.
- [J5] Babic, J., Carvalho, A., Ketter, W., and Podobnik, V. “*A Data-Driven Approach to Managing Electric Vehicle Charging Infrastructure in Parking Lots,*” **Transportation Research Part D: Transport and Environment**, vol. 105, 103198, 2022.
- [J6] Almeida, V. A. C. C., Râbelo, R. A. L., Carvalho, A., Rodrigues, J. J. P. C., and Solic, P. “*Aligning the Interests of Prosumers and Utilities through a Two-Stage Demand-Response Mechanism,*” **Journal of Cleaner Production**, vol. 323, 128993, 2021.
- [J7] Carvalho, A. and Karimi, M. “*Aligning the Interests of Newsvendors and Forecasters through Blockchain-Based Smart Contracts and Proper Scoring Rules,*” **Decision Support Systems**, vol. 151, 113626, 2021.
- [J8] Moore, J. F., Carvalho, A., Davis, G. A., Abulhassan, Y., and Megahed, F. M. “*Seat Assignments with Physical Distancing in Single-Destination Public Transit Settings,*” **IEEE Access**, vol. 9, p. 42985 – 42993, 2021.
- [J9] Carvalho, A. “*Bringing Transparency and Trustworthiness to Loot Boxes with Blockchain and Smart Contracts,*” **Decision Support Systems**, vol. 144, 2021.
- [J10] Carvalho, A., Merhout, J. W., Kadiyala, Y., and Bentley II, J. “*When Good Blocks Go Bad: Managing Unwanted Blockchain Data,*” **International Journal of Information Management**, vol. 57, 102263, 2021.
- [J11] Pevec, D., Babic, J., Carvalho, A., Ghiassi-Farrokhfal, Y., Ketter, W., and Podobnik, V. “*A Survey-Based Assessment of How Existing and Potential Electric Vehicle Owners Perceive Range Anxiety,*” **Journal of Cleaner Production**, vol. 276, 122779, 2020.
- [J12] Silva, I., Rabelo, R. A. L., Rodrigues, J. J. P. C., Solic, P., and Carvalho, A. “*A Preference-Based Demand Response Mechanism for Energy Management in a Microgrid,*” **Journal of Cleaner Production**, vol. 255, 120034, 2020.
- [J13] Carvalho, A. “*A Permissioned Blockchain-Based Implementation of LMSR Prediction Markets,*” **Decision Support Systems**, vol. 130, 113228, 2020.
- [J14] Carvalho, A., Sambhara, C., and Young, P. “*What the History of Linux Says About the Future of Cryptocurrencies,*” **Communications of the Association for Information Systems**, vol. 46., p. 18–29, 2020.
- [J15] Carvalho, A., Levitt, A., Levitt, S., Khaddam, E., and Benamati, J. “*Off-The-Shelf Artificial Intelligence Technologies for Sentiment and Emotion Analysis: A Tutorial on Using IBM Natural Language Processing,*” **Communications of the Association for Information Systems**, vol. 44, p. 918–943, 2019.
- [J16] Vroegindeweij, R. and Carvalho, A. “*Do Healthcare Workers Need Cognitive Computing Technologies? A Qualitative Study Involving IBM Watson and Dutch Professionals,*” **Journal of the Midwest Association for Information Systems**, vol. 6(1), p. 51–68, 2019.
- [J17] Carvalho, A., Dimitrov, S., and Larson, K. “*On Proper Scoring Rules and Cumulative Prospect Theory,*” **EURO Journal on Decision Processes**, vol. 6(3-4), p. 343–376, 2018.

- [J18] Pevec, D., Babic, J., Kayser, M. A., Carvalho, A., Ghiassi-Farrokhfal, Y., and Podobnik, V. “A *Data-Driven Statistical Approach for Extending Electric Vehicle Charging Infrastructure*,” **International Journal of Energy Research**, vol. 42, p. 3102–3120, 2018.
- [J19] Babic, J., Carvalho, A., Ketter, W., and Podobnik, V. “*Evaluating Parking Policies for Parking Lots Handling Electric Vehicles*,” **IEEE Access**, vol. 6(1), p. 944–961, 2018.
- [J20] Carvalho, A. “*On a Participation Structure that Ensures Representative Prices in Prediction Markets*,” **Decision Support Systems**, vol. 104, p. 13–25, 2017.
- [J21] Carvalho, A., Dimitrov, S., and Larson, K. “*Inducing Honest Reporting of Private Information in the Presence of Social Projection*,” **Decision**, vol. 4(1), p. 25–51, 2017.
- [J22] Carvalho, A. “*A Note on Sandroni-Shmaya Belief Elicitation Mechanism*,” **The Journal of Prediction Markets**, vol. 10(2), p. 14–21, 2016.
- [J23] Carvalho, A. “*An Overview of Applications of Proper Scoring Rules*,” **Decision Analysis**, vol. 13(4), p. 223–242, 2016.
- [J24] Carvalho, A., Dimitrov, S., and Larson, K. “*How Many Crowdsourced Workers Should a Requester Hire?*” **Annals of Mathematics and Artificial Intelligence**, vol. 78(1), p. 45–72, 2016.
- [J25] Carvalho, A. “*Tailored Proper Scoring Rules Elicit Decision Weights*,” **Judgment and Decision Making**, vol. 10(1), p. 86–96, 2015.
- [J26] Carvalho, A. and Larson, K. “*Sharing Rewards Among Strangers Based on Peer Evaluations*,” **Decision Analysis**, vol. 9(3), p. 253–273, 2012.

EDITORIAL  
PUBLICATIONS

- [E1] Zavolokina, L., Hein, A., Carvalho, A., Schwabe, G., and Kremer, H. “*Preface to the Special Issue on “Enterprise and Organizational Applications of Distributed Ledger Technologies*,” **Electronic Markets**, vol. 34, 2024.

REFEREED BOOK  
CHAPTERS

- [B1] Babic, J., Carvalho, A., Ketter, W., and Podobnik, V. “*Electricity Trading Agent for EV-enabled Parking Lots*,” **Agent-Mediated Electronic Commerce**. Series: Lecture Notes in Business Information Processing, vol. 271, Springer, p. 35–49, 2017.
- [B2] Carvalho, A., Dimitrov, S., and Larson, K. “*A Study on the Influence of the Number of MTurkers on the Quality of the Aggregate Output*,” **Multi-Agent Systems**. Series: Lecture Notes in Computer Science, vol. 8953, Springer International Publishing, p. 285–300, 2015.

REFEREED  
PUBLICATIONS IN  
CONFERENCE  
PROCEEDINGS

- [C1] Carvalho, A. and Bhunia, S. “*Verifying AI Content Authenticity Using Decentralized Technologies*.” In **Proceedings of the 30th Americas Conference on Information Systems**, 2024.
- [C2] Folha, R. and Carvalho, A. “*Towards Managing Design Science Knowledge with Large Language Model*.” In **Proceedings of the 30th Americas Conference on Information Systems**, 2024.

- [C3] Carvalho, A. and Karimi, M. “*Selecting the Optimal Number of Crowd Workers for Forecasting Tasks.*” In **Proceedings of the 29th Americas Conference on Information Systems**, 2023.
- [C4] Carvalho, A., Zavolokina, L., Bhunia, S., Chaudhary, M., and Yoganathan, N. “*Promoting Inclusiveness and Fairness through NFTs: The Case of Student-Athletes and NILs,*” in **Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems**, 2023
- [C5] Cortez, V., Rabelo, R. A. L., Carvalho, A, and Pilloni, V. “*Towards Consumer-Oriented Demand Response Systems,*” in **Proceedings of the 7th International Conference on Smart and Sustainable Technologies**, 2022.
- [C6] Anderson, C., Carvalho, A., Merhout, J. *Patient Consent for Health Information Exchange: Blockchain-driven Innovation.* In **Proceedings of the 28th Americas Conference on Information Systems**, 2022.
- [C7] Folha, R., Times, V., Carvalho, A., Araújo, A., Viana, F., Couto, H. *Towards a Novel Business Process Model for Food Delivery Services Using Blockchain Technology.* In **Proceedings of the 28th Americas Conference on Information Systems**, 2022.
- [C8] Folha, R., Times, V., Carvalho, A., Araújo, A., Viana, F., Couto, H. *FoodChain: A Food Delivery Platform Based on Blockchain for Keeping Data Privacy.* In **Proceedings of the 27th International Conference on Database Systems for Advanced Applications**, 2022.
- [C9] Carvalho, A. and Xu, J. “*Studies on the Accuracy of Ensembles of Cloud-Based Technologies for Sentiment Analysis,*” in **Proceedings of the 27th Americas Conference on Information Systems**, 2021.
- [C10] Carvalho, A. and Karimi, M. “*How Blockchain Can Bring Trust and Transparency to the Payment of Crowd Forecasters,*” in **Proceedings of the 41st International Conference on Information Systems**, 2020.
- [C11] Silva, I. R. S., Rabelo, R. A. L., Rodrigues, J. J. P. C., and Carvalho, A. “*A Multi-Objective Approach for Energy Management in a Microgrid Scenario,*” in **Proceedings of the 5th International Conference on Smart and Sustainable Technologies**, Split, Croatia, 2020.
- [C12] Carvalho, A and Harris, L. “*Off-the-Shelf Technologies for Sentiment Analysis of Social Media Data: Two Empirical Studies,*” in **Proceedings of the 26th Americas Conference on Information Systems**, USA, 2020.
- [C13] Pevec, D., Babic, J., Carvalho, A., Ghiassi-Farrokhfal, Y., Ketter, W., and Podobnik, V. “*Electric Vehicle Range Anxiety: An Obstacle for the Personal Transportation (R)evolution?*” in **Proceedings of the 4th International Conference on Smart and Sustainable Technologies**, Split, Croatia, 2019.
- [C14] Gilcrest, J. and Carvalho, A. “*Smart Contracts: Legal Considerations,*” in **Proceedings of the 2018 IEEE International Conference on Big Data**, p. 3277 – 3281, Seattle, USA, 2018.
- [C15] Jerdack, N., Dauletbek, A., Divine, M., Hult, M., and Carvalho, A. “*Understanding What Drives Bitcoin Trading Activities,*” in **Proceedings of the 2018 Annual Meeting of the Decision Sciences Institute**, p. 1864 – 1872, Chicago, USA, 2018.

- [C16] Carvalho, A. and Kroon, D. “*A Study on the Behavior of Crowd Workers when Reporting Forecasts under Proper Scoring Rules*,” in **Proceedings of the 24th Americas Conference on Information Systems**, New Orleans, USA, 2018.
- [C17] Pevec, D., Kayser, M. A., Babic, J., Carvalho, A., Ghiassi-Farrokhfal, Y., and Podobnik, V. “*A Computational Framework for Managing Electric Vehicle Charging Infrastructure*,” in **Proceedings of the 9th International Exergy, Energy and Environment Symposium**, p. 336-345, Split, Croatia, 2017.
- [C18] Carvalho, A. and Larson, K. “*A Consensual Linear Opinion Pool*,” in **Proceedings of the 23rd International Joint Conference on Artificial Intelligence**, p. 2518-2524, Beijing, China, 2013.
- [C19] Carvalho, A. and Larson, K. “*A Truth Serum for Sharing Rewards*,” in **Proceedings of the 10th International Conference on Autonomous Agents and Multiagent Systems**, p. 635-642, Taipei, Taiwan, 2011.
- [C20] Carvalho, A. and Oliveira, R. “*Reinforcement Learning for the Soccer Dribbling Task*,” in **Proceedings of the 2011 IEEE Conference on Computational Intelligence and Games**, p. 95-101, Seoul, South Korea, 2011.
- [C21] Carvalho, A. “*A Cooperative Coevolutionary Genetic Algorithm for Learning Bayesian Network Structures*,” in **Proceedings of the 13th Genetic and Evolutionary Computation Conference**, p. 1131-1138, Dublin, Ireland, 2011.
- [C22] Carvalho, A. and Larson, K. “*Sharing a Reward Based on Peer Evaluations*,” in **Proceedings of the 9th International Conference on Autonomous Agents and Multiagent Systems**, p. 1455-1456, Toronto, Canada, 2010.
- [C23] Oliveira, R., Adeodato, P., Carvalho, A., Viegas, I., Diego, C., and Ing-Ren, T. “*A Data Mining Approach to Solve the Goal Scoring Problem*,” in **Proceedings of the 22nd International Joint Conference on Neural Networks**, p. 2347–2352, Atlanta, USA, 2009.
- [C24] Carvalho, A. and Araujo, A. F. R. “*Improving NSGA-II with an Adaptive Mutation Operator*,” in **Proceedings of the 11th Genetic and Evolutionary Computation Conference**, p. 2697–2700, Montreal, Canada, 2009.

PROFESSIONAL  
PUBLICATIONS

- [P1] Carvalho, A. “*Decision Analysis at Erasmus University Rotterdam*,” **Decision Analysis Today**, vol. 33(3), p. 15, 2015.
- [P2] Carvalho, A., Dimitrov, S., and Larson, K. “*The Output-Agreement Method Induces Honest Behavior in the Presence of Social Projection*,” **ACM SIGecom Exchanges**, vol. 13(1), p. 77-81, 2014.

INVITED TALKS

- Introduction to Generative AI**  
Miami University Institute for Learning in Retirement 2024
- An Introduction to Blockchain Technology: Definitions, Applications, and Challenges**  
Universidade Federal do Piauí 2023  
ENUCOMPI/SINFO Symposium 2021



	<b>Designing Fair and Inclusive NFT Projects: The Case of Student-Athletes' Name, Image, and Likeness</b>	2023
	University of Luxembourg	
	<b>Are Sentiment Scores Reliable Explanatory Variables?</b>	2022
	Miami University Symposium on Natural Language Processing and Simulation	
	<b>A Blockchain-Based Protocol to Elicit, Verify, and Reward Forecasts</b>	2022
	INFORMS Annual Meeting	
	<b>An Introduction to NFT – From Bored Apes to the Metaverse</b>	2022
	Miami University Alumni College	
	Phi Gamma Nu Business Fraternity	2022
	<b>Aligning the Interests of Newsvendors and Forecasters through Blockchain-Based Smart Contracts and Proper Scoring Rules</b>	2022
	University of North Texas (G. Brint Ryan College of Business)	
	<b>A Gentle Introduction to Bitcoin</b>	2021
	Granville Public Library	
	Miami University Alumni Engagement	2021
	<b>Bringing Transparency and Trustworthiness to Loot Boxes with Blockchain and Smart Contracts</b>	2021
	EY Coffee & Blockchain meeting	
	<b>What is Blockchain and Cryptocurrency?</b>	2023
	Miami University Institute for Learning in Retirement	
	Miami University Blockchain Club	2019
	<b>On Proper Scoring Rules and Cumulative Prospect Theory</b>	2015
	Miami University (Farmer School of Business)	
	Kent State University (College of Business Administration)	2015
	INFORMS Annual Meeting (Decision Analysis Society Sponsored Session)	2014
	<b>Inducing Honest Behavior on Amazon's Mechanical Turk</b>	2014
	Erasmus University (Rotterdam School of Management)	
	University of Montana (Department of Computer Science)	2014
INVITED PANELS	<b>Teaching Effectiveness Workshop</b>	2020
	Miami University (Farmer School of Business)	
	<b>An Interdisciplinary Examination of Blockchain Systems</b>	2019
	Miami University Blockchain Conference	
WORKSHOPS	<b>The Scientific Method (Communication Component)</b>	2021
	Universidade Federal do Piauí	
	<b>A Gentle Introduction to Ethereum: From Tokens to DeFi</b>	2020
	Universidade Federal do Piauí	

	<b>A Gentle Introduction to Ethereum</b>	
	27th Americas Conference on Information Systems	2021
	Universidade Federal de Pernambuco	2021
	Universidade Federal do Piauí	2020
	Miami University (ISA Seminar Series)	2020
	Annual Meeting of the Decision Sciences Institute	2019
CONFERENCE PRESENTATIONS (SPEAKER)	<b>Selecting the Optimal Number of Crowd Workers for Forecasting Tasks</b>	
	29th Americas Conference on Information Systems	2023
	<b>Designing Fair and Inclusive NFT Projects: The Case of Student-Athletes' Name, Image, and Likeness</b>	
	The Business of Blockchain Technology Conference	2023
	<b>A Blockchain-Based Protocol to Elicit, Verify, and Reward Forecasts</b>	
	INFORMS Annual Meeting	2022
	<b>Towards a Novel Business Process Model for Food Delivery Services Using Blockchain Technology</b>	
	28th Americas Conference on Information Systems	2022
	<b>Studies on the Accuracy of Ensembles of Cloud-Based Technologies for Sentiment Analysis</b>	
	27th Americas Conference on Information Systems	2021
	<b>Off-the-Shelf Technologies for Sentiment Analysis of Social Media Data: Two Empirical Studies</b>	
	26th Americas Conference on Information Systems	2020
	<b>How Blockchain Can Bring Trust and Transparency to the Payment of Crowd Forecasters</b>	
	41st International Conference on Information Systems	2020
	ECIS Blockchain Research eWorkshop	2020
	<b>When Good Blocks Go Bad: Dealing with Unwanted Blockchain Data</b>	
	2019 Annual Meeting of the Decision Sciences Institute	2019
	<b>Understanding What Drives Bitcoin Trading Activities</b>	
	2018 Annual Meeting of the Decision Sciences Institute	2018
	<b>A Study on the Behavior of Crowd Workers when Reporting Forecasts under Proper Scoring Rules</b>	
	24th Americas Conference on Information Systems	2018
	<b>Should Prosumers Form Renewable Energy Cooperatives? A Case Study</b>	
	Policy, Awareness, Sustainability and Systems (PASS) Workshop	2016
	<b>Determining the Ideal Number of Crowd Workers Based on an Outlier Analysis of the Error Curve</b>	
	2015 INFORMS Conference on Information Systems and Technology	2015
	<b>How Many Crowd Workers Should a Requester Hire on Amazon Mechanical Turk?</b>	

INFORMS Annual Meeting	2015
27th European Conference on Operational Research	2015
<b>A Study on the Influence of the Number of MTurkers on the Aggregate Output's Quality</b>	
12th European Conference on Multi-Agent Systems	2014
INFORMS Advances in Decision Analysis	2014
<b>A Consensual Linear Opinion Pool</b>	
23rd Int'l Joint Conference on Artificial Intelligence	2013
University of Waterloo Cheriton Research Symposium	2013
<b>On an Automated Market Maker with Price Convergence Guarantees</b>	
INFORMS Annual Meeting	2013
<b>A Truth Serum for Sharing Rewards</b>	
10th Int'l Conference on Autonomous Agents and Multiagent Systems	2011
University of Waterloo Graduate Student Research Conference	2011
<b>Reinforcement Learning for the Soccer Dribbling Task</b>	
IEEE Conference on Computational Intelligence and Games	2011
<b>On a Reliable Peer-Review Process</b>	
University of Waterloo Cheriton Research Symposium	2011
<b>A Cooperative Coevolutionary Genetic Algorithm for Learning Bayesian Network Structures</b>	
13th ACM Genetic and Evolutionary Computation Conference	2011
<b>Improving NSGA-II with an Adaptive Mutation Operator</b>	
11th ACM Genetic and Evolutionary Computation Conference	2009
<b>Sharing a Reward Based on Peer Evaluations</b>	
9th Int'l Conference on Autonomous Agents and Multiagent Systems	2009

TEACHING  
EXPERIENCE

Farmer School of Business, Miami University

**Independent Studies (B.Sc.)**

- Delivery mode: face-to-face

**Business Analytics (B.Sc.)**

- Delivery mode: hybrid and online (synchronous)

**Database Systems (B.Sc.)**

- Delivery mode: face-to-face, hybrid, and online (asynchronous)

**Blockchain and Business Applications (B.Sc.)**

- Delivery mode: face-to-face

**Managing Big Data (B.Sc./M.Sc.)**

- Delivery mode: face-to-face and online (synchronous and asynchronous)

Rotterdam School of Management, Erasmus University

**Big Data and Business Analytics (M.Sc.)**

- Delivery mode: face-to-face

**Applied Business Methods (B.Sc.)**

- Delivery mode: face-to-face

THESIS  
SUPERVISION

Ph.D. in Computer Science, Universidade Federal do Piauí

**Vitor Cortez**

2021 - 2023

- Thesis: *The Impact of Flexibility on Demand-Side Management and the Need for Consumer-Oriented Demand Response*

- Co-supervisor: Dr. Ricardo de Andrade

Executive MBA, Rotterdam School of Management

**Vikas Sachar**

2015

- Thesis: *Advanced Analytics @ Scale*

- Industrial partner: *Unilever*

**Sander Barake**

2015

- Thesis: *KPN: Riding the Big Data Wave*

- Industrial partner: *Koninklijke KPN N.V. (KPN)*

**Tekin Mentes**

2015

- Thesis: *From SILOS to Synergy: Enabling Continuous Improvement in Performance Management through BICC*

- Industrial partner: *Acelity*

M.Sc. in Business Information Management, Rotterdam School of Management

**Vadim Galaktionov**

2015 - 2016

- Thesis: *On the Economic Value of Renewable Energy Cooperatives*

**Thanasis Zias**

2015 - 2016

- Thesis: *Sales Forecasting Methods in the Pharmaceutical Industry*

- Industrial partner: *Gerolymatos International*

**Masih Nassiri**

2015 - 2016

- Thesis: *Sustainable Mortgage Debt Recovery: A Myth?*

- Industrial partner: *ING*

**Shanise Abhelakh**

2015 - 2016

- Thesis: *The Added Value of Mobile Data in Transaction Monitoring*

- Industrial partner: *Deloitte and Bung*

**Oumaima Ouari**

2015 - 2016

- Thesis: *Waste Management and Marketing: A Customer-Centric Approach*

- Industrial partner: *L'Oréal*

**Martin Kayser**

2015 - 2016

- Thesis: *A Data-Driven Approach to Modeling Charging Station Utilization Levels by Plug-In Electric Vehicles Type Charging Behavior and Point of Interests*

- Meral Akkurt** 2015 - 2016  
 - Thesis: *Defining the Factors That Influence the Effective Use of Business Intelligence & Analytics*  
 - Industrial partner: *Microsoft*
- Thomas Gratzmüller** 2015 - 2016  
 - Thesis: *Analysis of the Influence of Health Awareness on Online Health Information Seeking and its Perceived Risks*
- Maxim Grgurevic** 2015 - 2016  
 - Thesis: *On the Validity of the Social Projection Assumptions in the Output Agreement Method*
- Dennis Huisman Sigcha** 2015 - 2016  
 - Thesis: *Distance-Oriented Linear Opinion Pools*
- Max van Hilten** 2015 - 2016  
 - Thesis: *The Interpretation of the General Data Protection Regulation by Dutch Data Intensive Start-ups*  
 - Industrial partner: *KPMG*
- Roxanne Vroegindewei** 2015 - 2016  
 - Thesis: *Technology Adoption in the Healthcare Industry*  
 - Industrial partner: *IBM*
- Luut Willen** 2014 - 2015  
 - Thesis: *Are Dutch Leading B2B Industrial Manufacturing and Components Companies "Future-Proof"?*  
 - Industrial partner: *Itelligence*
- Jeroen van Peer** 2014 - 2015  
 - Thesis: *Reviewing Applications of Proper Scoring Rules*
- Bart van Hout** 2014 - 2015  
 - Thesis: *The Crowd or the Past?*
- Denise Kroon** 2014 - 2015  
 - Thesis: *A Study of the Effects of Proper Scoring Rules on Risk Neutrality when Stakes are Low*
- Bas Willemsen** 2014 - 2015  
 - Thesis: *Can Crowds Make Reliable Predictions?*
- Kas Zuyderwijk** 2014 - 2015  
 - Thesis: *Crowdsourcing Predictions*
- Esther Hundepool** 2014 - 2015  
 - Thesis: *Risk and Trust Perception: Influences on the Willingness-To-Buy in Electronic Commerce in the Retail Industry*  
 - Industrial partner: *PwC*
- Sebastian Buurman** 2014 - 2015  
 - Thesis: *Do Scoring Rules Improve Forecast Accuracy in Prediction Markets? An Empirical Comparison of Two Markets*
- Mick van Elswijk** 2014 - 2015  
 - Thesis: *Eliciting and Aggregating Private Information: Prediction Markets Vs. Proper Scoring Rules*
- Vlad Masek** 2014 - 2015  
 - Thesis: *Recommendation Engines in the Digital Era: A Data-Driven Design*

THESIS READING  
AND COMMITTEE  
MEMBERSHIP

External Ph.D. Committee Member

- Hrvoje Vdović** 2022  
- Supervisor: Dr. Jurica Babic  
- Institution: Faculty of Electrical Engineering and Computing, University of Zagreb
- Dario Pevec** 2018  
- Supervisor: Dr. Vedran Podobnik  
- Institution: Faculty of Electrical Engineering and Computing, University of Zagreb

Doctoral Qualifying Exam

- Damir Kopljar** 2022  
- Supervisor: Dr. Vedran Podobnik  
- Institution: Faculty of Electrical Engineering and Computing, University of Zagreb
- Demijan Grgić** 2019  
- Supervisor: Dr. Vedran Podobnik  
- Institution: Faculty of Electrical Engineering and Computing, University of Zagreb
- Hrvoje Vdović** 2019  
- Supervisor: Dr. Jurica Babic  
- Institution: Faculty of Electrical Engineering and Computing, University of Zagreb
- Dario Pevec** 2017  
- Supervisor: Dr. Vedran Podobnik  
- Institution: Faculty of Electrical Engineering and Computing, University of Zagreb

M.Sc. in Computer Science, Miami University

- Pratiksha Shrestha** 2023 - 2024  
- Thesis: *Blockchain-based Anonymous Reviewer Incentive Token*  
- Supervisor: Dr. Suman Bhunia
- Owen Campbell** 2023 - 2024  
- Thesis: *SCEFSTA: Smart Contract Enabled Fair, Secure, and Transparent Auction for Healthcare Transportation*  
- Supervisor: Dr. Suman Bhunia
- Monu Chaudhary** 2022 - 2023  
- Thesis: *Fairness in NIL-based NFT Marketplace (NNM)*  
- Supervisor: Dr. Suman Bhunia

M.Sc. in Business Information Management, Rotterdam School of Management

- Fiero Amier** 2015 - 2016  
- Thesis: *The Role of Complexity and Stakes in Individual-Level Decision Making in Online Environments*  
- Supervisor: Dr. Rodrigo Belo
- Amy Zhou** 2015 - 2016  
- Thesis: *Does the Usage of Facebook and Blackboard Contribute to Your Performance and Integration?*  
- Supervisor: MSc. A.P. Simons
- Nienke Hoogeveen** 2015 - 2016  
- Thesis: *The Skills of online workers and the influence of fairness on performance*  
- Supervisor: Dr. Mark Boons

**Spyros Lagkaditis** 2014 - 2015  
 - Thesis: *The Impact of Different Versions of Feedback on Household Energy Consumption in the Netherlands*  
 - Supervisor: Dr. Dimitrios Tsekouras  
 - Industrial partner: *CGI*

**Tu Anh Thang** 2014 - 2015  
 - Thesis: *Identifying User Segments and Patterns in Dutch Driving Behavior*  
 - Supervisor: Dr. Wolfgang Ketter

**Derrick Dikkers** 2014 - 2015  
 - Thesis: *Using Electric Vehicles to Regulate Energy Markets: A Time Series Analysis*  
 - Supervisor: M.Sc. Micha Kahlen

**Fabian Lanz** 2014 - 2015  
 - Thesis: *Electric Vehicle User Behavior: Using Machine Learning to Predict Charging in Smart Energy Markets*  
 - Supervisor: Dr. Ksenia Koroleva

RESEARCH VISITOR HOSTING **Rodrigo Folha** 2023  
 - Institution: Universidade Federal de Pernambuco (Brazil)  
 - Academic Rank: Ph.D. Candidate

EXTERNAL ACADEMIC & PROFESSIONAL SERVICE **Advisory Boards**  
 Ephycent 2021 – 2022  
 Virtual Blockchain Conference 2020  
 OhioX 2019 – 2022

**Consulting Work & Collaboration with Industry**

- Global Blockchain Business Council 2021  
 - Partner of the Global Standards Mapping Initiative (GSMI) 2.0 fellows program.
- Cardinal Health 2020  
 - In a partnership between the Center for Analytics & Data Science (CADS) at Miami University and Cardinal Health, I led the development of a blockchain project to track drugs in the pharmaceutical supply chain.
- Red Line Editorial, Inc. 2018  
 - I worked with Red Line Editorial, Inc. as a content consultant for the book “Cryptocurrency,” written for grades 3 to 6 by Kate Conley.

**Editorial Boards**

International Journal of Information Management Since 2024  
 International Journal of Business and Data Analytics Since 2017  
 International Journal of Decision Support System Technology 2018 - 2022

**Guest Editor**

- Electronic Markets 2022  
 - “Enterprise and Organizational Applications of Distributed Ledger Technologies”

## Guest Associate Editor

- Decision Support Systems 2023  
- “Blockchain Technology and Applications”

## Ad-Hoc Referee and Reviewer for Academic Journals

AIS Transactions on Human-Computer Interaction  
Communications of the Association for Information Systems  
Decision  
Decision Analysis  
Decision Support Systems  
Electronic Markets  
Engineering Applications of Artificial Intelligence  
European Journal of Information Systems  
European Journal of Operational Research  
Environment, Systems and Decisions  
Human Computation  
IEEE Transactions on Engineering Management  
IEEE Transactions on Systems, Man and Cybernetics: Systems  
Information Systems Journal  
Information Systems Research  
International Journal of Decision Support System Technology  
International Journal of Information Management  
JMIR mHealth and uHealth  
Journal of Artificial Intelligence Research  
Journal of the Association for Information Systems  
Management Information Systems Quarterly  
Management Science  
Natural Computing  
Operations Research

## Ad-Hoc Referee and Reviewer for Funding Agencies

Social Sciences and Humanities Research Council of Canada (SSHRC)

## Conference Program Committee (Role: Conference Chair)

2016 Energy Informatics & Management 2016  
2015 Energy Informatics & Management 2015

## Conference Program Committee (Role: Track Chair)

2018 Workshop on Blockchain and Smart Contract 2018

## Conference Program Committee (Role: Associate Editor)

2024 European Conference on Information Systems 2024  
2023 European Conference on Information Systems 2023  
18th International Conference on Wirtschaftsinformatik 2023  
2022 International Conference on Information Systems 2022  
2022 European Conference on Information Systems 2022

## Conference Program Committee (Role: Reviewer)

2024 International Conference on Information Systems 2024  
30th Americas Conference on Information Systems 2024  
2024 European Conference on Information Systems 2024  
7th Annual Workshop on Applications of AI in the Legal Industry 2023  
2023 International Conference on Information Systems 2023



29th Americas Conference on Information Systems	2023
2023 European Conference on Information Systems	2023
6th Annual Workshop on Applications of AI in the Legal Industry	2022
56th Hawaii International Conference on System Sciences	2022
2022 International Conference on Information Systems	2022
5th Annual Workshop on Applications of AI in the Legal Industry	2021
55th Hawaii International Conference on System Sciences	2021
27th Americas Conference on Information Systems	2021
4th Annual Workshop on Applications of AI in the Legal Industry	2020
41st International Conference on Information Systems	2020
3rd Annual Workshop on Big Data Analytics in the Legal Industry	2019
27th European Conference on Information Systems	2019
2nd Annual Workshop on Big Data Analytics in the Legal Industry	2018
24th Americas Conference on Information Systems	2018
13th German Conference on Multiagent System Technologies	2015
14th Int'l Conf. on Autonomous Agents and Multiagent Systems	2015
17th Int'l Conf. on Principles and Practice of Multi-Agent Systems	2014
6th Int'l Conf. on Adv. Cognitive Tech. and Applications	2014
16th Int'l Conf. on Principles and Practice of Multi-Agent Systems	2013
15th Int'l Conf. on Principles and Practice of Multi-Agent Systems	2012
21st International Joint Conference on Artificial Intelligence	2011

INTERNAL  
ACADEMIC  
SERVICE

**Divisional Service (Farmer School of Business)**

Miami MBA Steering Committee	2024 - Present
Technology Policies Committee (Committee. chair)	2023 - Present
Cybersecurity Curriculum Development Grant Committee	2023
Best Practices in Future Teaching Committee	2021
Technology Policies Committee Farmer School of Business	2018 - 2022 (x4)
Strategic Technology Committee	2018 - 2020

**Departmental Service (Dept. of Information Systems & Analytics)**

Faculty Search Committee (Committee Chair)	Fall 2022
Major/Minor Coordination Committee	2019 - present
Faculty Search Committee	Fall 2019
Faculty Search Committee	Fall 2017
STAR Seminar Series Organizing Committee	2016 - 2017

**Student Clubs**

Faculty Adviser for Miami University CyberSecurity Club	2020 - 2021
Faculty Adviser for Miami University Blockchain Club	2017 - present

**Other Institutions**

Faculty Search Committee (ext. member), Univ. of Luxembourg	Spring 2023
Graduate Recruiting Committee, University of Waterloo	2013 - 2014
Global Representative Program, University of Waterloo	2013 - 2014
Computer Science Commons Committee, University of Waterloo	2011 - 2012

MEDIA MENTIONS

- Barron's  
- *"Crypto Industry Grapples With FTX Fallout As Trial Looms"* 2023

- Bloomberg
  - *“Stanford Grads Get School’s Backing for Blockchain Startup”* 2019
- FSB News
  - *“FSB professor: Cryptocurrency crash will likely lead to regulations”* 2022
  - *“NFTs: What they are, and what they could be”* 2022
  - *“Blockchain takes center stage at Miami conference”* 2019
  - *“Students in hackers’ crosshairs at IBM Cyber Range Center”* 2019
  - *“Arthur Carvalho named as first Dinesh & Ila Paliwal Innovation Chair”* 2019
  - *“Farmer School team tops among colleges at Blockland Hackathon”* 2018
  - *“Club explores blockchain technology’s potential beyond Bitcoin”* 2018
  - *“Students use IBM Watson tech to build and balance big data”* 2017
- Inside Higher ED
  - *“Blockchain Gains Currency in Higher Ed”* 2018
- IoT World Today
  - *“How Blockchain Technology Can Benefit the Internet of Things”* 2021
- Lifewire
  - *“How Blockchain Could Transform Virtual Reality”* 2021
- MSN
  - *“Crypto Industry Grapples With FTX Fallout As Trial Looms”* 2023
- Poets & Quants
  - *“AI Is Coming. What Does That Mean For Business Education?”* 2018
- Point2Homes
  - *“What You Lost by Not Investing in Bitcoin or Real Estate”* 2021
- Protocol
  - *“One Big Question: What’s the Ideal EV Range?”* 2022
- Supply Chain Dive
  - *“Blockchain drives transparency in the supply chain”* 2022
- TechTarget
  - *“How AI Changes Quality Assurance in Tech”* 2023
- The Journey
  - *“Beyond Bitcoin”* 2019
- Yahoo! News
  - *“Going all-in with Nvidia: How Jensen Huang’s high-stakes bets paid off”* 2023
  - *“Crypto Industry Grapples With FTX Fallout As Trial Looms”* 2023

PROGRAMMING SKILLS C/C++, Java, JavaScript (Node.js), Maple, Matlab, Python, R, Solidity, SQL, PL/SQL

INFORMATION SYSTEM TECHNOLOGIES **Blockchain** (Algorand, Bitcoin, Ethereum, Multichain, and Hyperledger Fabric)  
**Cloud Platforms** (Amazon AWS, Google Cloud, IBM Cloud, Microsoft Azure)  
**Relational databases** (Oracle XE, MySQL)

**Document-oriented databases** (MongoDB)  
**Hadoop environment** (HDFS, MapReduce, Sqoop, Hive, Spark)  
**Statistical Software** (JMP Pro, SPSS Statistics)

PROFESSIONAL CERTIFICATIONS AND CERTIFICATES	<b>ICAgile Certified Professional</b> , ICAgile <b>Fundamentals of University Teaching</b> , University of Waterloo <b>Student Leadership Program</b> , University of Waterloo <b>Sun Certified Mobile Application Developer</b> (SCMAD, Java 2 Platform) <b>Sun Certified Programmer for the Java 2 Platform</b> (SCJP, SE 1.4)	2019 2013 2012 2005 2005
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PROFESSIONAL MEMBERSHIPS	<b>AIS</b> - Association for Information Systems <b>AIS SIG BIT</b> - AIS Special Interest Group on Blockchain Innovations and Technologies <b>AIS SIG DSA</b> - AIS Special Interest Group on Decision Support and Analytics <b>AIS SIG Green</b> - AIS Special Interest Group on Green IT <b>INFORMS</b> - Institute for Operations Research and the Management Science <b>INFORMS ISS</b> - Information Systems Society
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LANGUAGE SKILLS	<b>Portuguese</b> (native) <b>English</b> (fluent) <b>Spanish</b> (intermediate)
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REFERENCES	Available upon request.
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