

Bedoor AlShebli

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Curriculum Vitae - November 2023

Research Interests

Computational Social Science, Science of Science, Big Data, Team Collaboration, Diversity, Inequality

Education

- 2013 – 2017 Ph.D. in Interdisciplinary Engineering**
Department of Computer Science, Masdar Institute of Science and Technology, UAE.
Dissertation Title: “*Diversity: Trendy Buzzword or Scientific Imperative?*”
Advisor: [Wei Lee Woon](#)
- 2003 – 2005 M.Sc. in Computer Science**
Department of Computer Science, University of Illinois at Urbana-Champaign, IL
Dissertation Title: “*Mapping Maintenance for Data Management*”
Advisor: [AnHai Doan](#)
- 1999 – 2002 B.Sc. in Computer Science**
Department of Computer Science, Kuwait University, Kuwait

Academic Positions

- Sept 2020 – present Assistant Professor of Computational Social Science**
Social Science Division, New York University Abu Dhabi
- Jan 2019 – Aug 2020 Postdoctoral Associate**
Data Science and AI Lab, New York University Abu Dhabi
- Jan 2018 – Dec 2018 Postdoctoral Fellow**
Department of Computer Science, Masdar Institute, part of Khalifa University
- Jan 2016 – May 2016 Visiting Scholar**
Scalable Cooperation Lab, Media Lab, MIT
- Aug 2013 – Aug 2017 Research Associate**
Department of Computer Science, Masdar Institute, part of Khalifa University
- Aug 2003 – Jan 2008 Research Assistant**
Department of Computer Science, University of Illinois at Urbana-Champaign

Publications

Corresponding authors are starred. Student, research assistant & postdoctoral co-authors are underlined.

Peer-Reviewed Journal Publications:

1. F Liu, P Holme, M Chiesa, **B AIShebli***, T Rahwan* (2023). "Gender inequality and self-publication are common among academic editors." **Nature Human Behaviour**. Media coverage: [Nature](#), [Times Higher Education](#), [Nature Middle East](#), [University World News](#), [Khaleej Times](#), [Nature News and Views](#), [EurekAlert](#), [New Scientist](#).
2. F Liu, T Rahwan*, **B AIShebli*** (2023). *Non-White scientists appear on fewer editorial boards, spend more time under review, and receive fewer citations.* **Proceedings of the National Academy of Sciences**. Media coverage: [Nature](#), [Science & Development Network](#), [Phys.org](#), [American Physical Society](#), [Physics World](#), [EurekAlert!](#), [University World News](#).
3. M Chaqfeh, **B AIShebli**, MF Zaffar, T Rahwan, Y Zaki* (2023). "Towards a World Wide Web without digital inequality". **Proceedings of the National Academy of Sciences**. Media coverage [Nature Middle East](#).
4. M Waniek, N Suri, A Zameek, **B AIShebli**, T Rahwan* (2023). "Human intuition as a defence against attribute inference". **Scientific Reports**.
5. H Ibrahim et al. (2023). "Perception, Performance, and Detectability of Conversational Artificial Intelligence Across 32 University Courses". **Scientific Reports**. Media coverage: [New Scientist](#), [Scientific American](#), [The Times](#), [The Independent](#), [Nature Asia](#), [Daily Mail](#), [GovTech](#), [The Daily Beast](#), [EurekAlert!](#), [Phys.org](#), [The National](#), [Neuroscience News](#), [Nature Middle East](#).
6. **B AIShebli**, E Cheng, M Waniek, R Jagannathan, P Hernandez-Lagos*, T Rahwan* (2022). "Beijing's Central Role in Global Artificial Intelligence Research." **Scientific Reports**.
7. M Waniek, G Raman, **B AIShebli**, J Peng*, T Rahwan* (2021). "Traffic Networks are Vulnerable to Disinformation Attacks." **Scientific Reports**.
8. MJ Salganik* et al. (2020). "Measuring the predictability of life outcomes with a scientific mass collaboration". **Proceedings of the National Academy of Sciences**.
9. G Raman, **B AIShebli**, M Waniek, T Rahwan*, J Peng* (2020). "How weaponizing disinformation can bring down a city's power grid." **PLOS ONE**.
10. **B AIShebli**, O.Skibski, M Wooldridge, T Michalak, T Rahwan (2019). "A Measure of Added Value in Groups." **ACM Transactions on Autonomous and Adaptive Systems**.
11. A Alabdulkareem, MR Frank, L Sun, **B AIShebli**, C Hidalgo, I Rahwan* (2019). "Unpacking the polarization of workplace skills". **Science Advances**.
12. **B AIShebli***, T Rahwan*, W Woon* (2018). "The Preeminence of Ethnic Diversity in Scientific Collaborations." **Nature Communications**. Media coverage: [Nature News](#), [Physics World](#).
13. N Kenan*, M Attiya, **B AIShebli** (2014). "A Closed-Loop Capacitated Warehouse Location Model with Risk Pooling". **Logistics Operations, Supply Chain Management and Sustainability**

Peer-Reviewed Conferences:

1. [B AIShebli](#), [A Alibasic](#), WL Woon, D Svetinovic (2017). “*Kanban-based framework for analysis of heterogeneous academic data*”. **IEEE Telecommunication Forum**
2. [B AIShebli](#), E Gilbert, K Karahalios (2007). “*The social implications of an assisted living reminder system*”. **Online Communities and Social Computing, part of HCI International**
3. [B AIShebli](#), K Karahalios (2007). “*The impact of culture on collaborative technologies*”. **Computer Human Interaction Conference (CHI 2007)**
4. Jennifer C Hou, [Qixin Wang](#), [Bedoor AIShebli](#), [Linda Ball](#), [Stanley Birge](#), [Marco Caccamo](#), [Chin-Fei Cheah](#), [Eric Gilbert](#), [Carl A Gunter](#), [Elsa Gunter](#), [Chang-Gun Lee](#), [Karrie Karahalios](#), [Min-Young Nam](#), [Narasimhan Nitya](#), [Chaudhri Rohit](#), [Lui Sha](#), [Wook Shin](#), [Sammy Yu](#), [Yang Yu](#), [Zheng Zeng](#) (2007). “*Pas: A wireless-enabled, sensor-integrated personal assistance system for independent and assisted living*”. **High Confidence Medical Devices, Software, and Systems and Medical Device Plug-and-Play Interoperability (HCMDSS-MDPnP 2007)**
5. [Qixin Wang](#), [Wook Shin](#), [Xue Liu](#), [Zheng Zeng](#), [Cham Oh](#), [Bedoor AIShebli](#), [Marco Caccamo](#), [Carl A Gunter](#), [Elsa Gunter](#), [Jennifer Hou](#), [Karrie Karahalios](#), [Lui Sha](#) (2006). “*I-Living: An open system architecture for assisted living*”. **IEEE International Conference on Systems, Man and Cybernetics 2006**
6. [R McCann](#), [B AIShebli](#), [Q Le](#), [H Nguyen](#), [L Vu](#), [AH Doan](#) (2005). “*Mapping maintenance for data integration systems*”. **Conference on Very Large Databases (VLDB '05)**

Under Peer Review:

1. [SA Memon](#), [K Makovi*](#), [B AIShebli*](#). “*Characterizing the effect of retractions on scientific careers*.” **Revise & Resubmit in Nature Human Behavior**. (Best Paper Award at ICSSI 2023).
2. [B AIShebli*](#), [SA Memon](#), [JA Evans](#), [T Rahwan](#). “*China and the US produce more impactful AI research when collaborating together*”. **Revise & Resubmit in Nature Human Behavior**

Working Papers:

1. [B AIShebli*](#). “*A tale of two countries: Age Diversity and Team Outcomes in China and the U.S.*”
2. [M Sahakyan](#), [M Waniek](#), [T Rahwan*](#), [B AIShebli*](#). “*Explainable Artificial Intelligence as a Generic Data Analysis Tool*”.
3. [SA Memon](#), [S Subhani](#), [B AIShebli*](#). “*Unveiling Career Growth – A Novel Dataset Identifying Promotions in the Labor Market*”.

Presentations

Invited Talks:

1. **B. AIShebli**. (2023) “*A Global Perspective of Scientific Publications*”. **Department of Informatics and Networks Systems, University of Pittsburgh**
2. **B. AIShebli**. (2023) “*Disparity and Conflict of Interest in Academia*”. **Biology Seminar Series, NYUAD, Abu Dhabi**
3. **B. AIShebli**. (2022) “*Diversity in Scientific Collaboration*”. **Path to the Professoriate - STEM Edition program, University of California Berkley**
4. **B. AIShebli**. (2021) “*The Preeminence of Ethnic Diversity in Scientific Collaboration*”. **The 9th Computational Social Science satellite event, Lyon, France**
5. **B. AIShebli**. (2021) “*The Preeminence of Ethnic Diversity in Scientific Collaboration*”. **Science of Innovation and Success, Waseda University, Japan**
6. **B. AIShebli**. (2021) “*The Preeminence of Ethnic Diversity in Scientific Collaboration*”. **Computer Science Department, Gulf University of Science and Technology, Kuwait**
7. **B. AIShebli**. (2021) “*The Preeminence of Ethnic Diversity in Scientific Collaboration*”. **Psychology Seminar Series, NYUAD, Abu Dhabi**

Conferences:

1. **B. AIShebli**, SA Memon, JA Evans, T Rahwan. (2023) “*China and the US produce more impactful AI research when collaborating together*”. **9th International Conference of Computational Social Science, University of Copenhagen, Denmark**
2. F Liu, T Rahwan, **B AIShebli** (2023). “*Non-White scientists appear on fewer editorial boards, spend more time under review, and receive fewer citations*”. **9th International Conference of Computational Social Science, University of Copenhagen, Denmark**
3. M Sahakyan, T Rahwan, **B AIShebli** (2023). “*Explainable Artificial Intelligence as a generic data analysis tool*”. **9th International Conference of Computational Social Science, University of Copenhagen, Denmark**
4. SA Memon, K Makovi, **B. AIShebli** (2023) “*Characterising the effect of scientific retractions on collaboration networks*”. **International Conference on Science of Science and Innovation, Northwestern University, IL. (Best Paper Award)**
5. F Liu, P Holme, M Chiesa, **B AIShebli**, T Rahwan (2023). “*Gender inequality and self-publication patterns among scientific editors*”. **International Conference on Science of Science and Innovation, Northwestern University, IL**
6. **B. AIShebli**, SA Memon, JA Evans, T Rahwan. (2023) “*China and the US produce more impactful AI research when collaborating together*”. **International Conference on Science of Science and Innovation, Northwestern University, IL**

7. [F Liu](#), T Rahwan, [B AIShebli](#) (2023). “Non-White scientists appear on fewer editorial boards, spend more time under review, and receive fewer citations”. **International Conference on Science of Science and Innovation, Northwestern University, IL**
8. [B. AIShebli](#). (2023) “The interdependence and knowledge flow between the East and West in Global AI Research”. **The Frontiers of Network Science Workshop, New York University**
9. [SA Memon](#), K Makovi, [B. AIShebli](#) (2023) “Exploring the impact of scientific retractions on academic reputation”. **The Frontiers of Network Science Workshop, New York University**
10. [SA Memon](#), K Makovi, [B. AIShebli](#) (2022) “Characterising the effect of scientific retractions on collaboration networks”. **8th International Conference of Computational Social Science, University of Chicago, IL**
11. [F Liu](#), P Holme, M Chiesa, [B AIShebli](#), T Rahwan (2022). “Gender inequality and self-publication patterns among scientific editors”. **8th International Conference of Computational Social Science, University of Chicago, IL**
12. [M Chagfeh](#), [B AIShebli](#), MF Zaffar, T Rahwan, Y Zaki (2022). “Towards bridging the digital divide in developing regions”. **8th International Conference of Computational Social Science, University of Chicago, IL**
13. [B. AIShebli](#), T Rahwan (2019). “Age Diversity Increases Scientific Impact”. **5th International Conference of Computational Social Science, University of Amsterdam, The Netherlands**
14. [B. AIShebli](#), T Rahwan, WL Woon (2019). “The Preeminence of Ethnic Diversity in Scientific Collaboration”. **5th International Conference of Computational Social Science, University of Amsterdam, The Netherlands**
15. [B AIShebli](#), [A Alibasic](#), WL Woon, D Svetinovic (2017). “Kanban-based framework for analysis of heterogeneous academic data”. **25th Telecommunication Forum (TELFOR), Belgrade, Serbia**
16. [B AIShebli](#), E Gilbert, K Karahalios (2007). “The social implications of an assisted living reminder system”. **HCI International, Beijing, China**
17. [B AIShebli](#), K Karahalios (2007). “The impact of culture on collaborative technologies”. **Computer Human Interaction Conference (CHI 2007), San Jose, CA**
18. [R McCann](#), [B AIShebli](#), [Q Le](#), [H Nguyen](#), [L Vu](#), AH Doan (2005). “Mapping maintenance for data integration systems”. **Conference on Very Large Databases, Trondheim, Norway**

Grants

2023 Winter Institute of Computational Social Science (WICSS) Organizing Support

- Research Institute, NYU Abu Dhabi (\$25,000)
- Computational Social Science Cluster, NYU Abu Dhabi (\$10,000)

2023 Research Grant:

- Development Research Cluster, NYU Abu Dhabi (\$5,000)

2022 Internal Competition Award for a 3-Year Postdoctoral Associate Line:

- Social Science Division, NYU Abu Dhabi (AY 2023-2026), with Anju Mary Paul.

Honors & Awards

- 2023** **Best Paper Award**, *International Conference on Science and Science and Innovation.*
- 2013 – 2017** **Full four-year scholarship towards a PhD degree**, *Masdar Institute of Science and Technology.*
- Fall 2007** **Outstanding Teaching Award (Computer Science)**, *Center of Teaching Excellence, University of Illinois at Urbana Champaign.*
- Spring 2007** **Excellent Teaching Award (Computer Science)**, *Center of Teaching Excellence, University of Illinois at Urbana Champaign.*
- 2003 – 2005** **Full two-year scholarship towards an MSc degree**, *Saudi Arabian Cultural Mission, (SACM)*
- Spring 2005** **Prince Bandar Bin Sultan Award for best MSc Thesis in Computer Science (\$5,000)**
- 2001** **2nd place in the Arab and North African Regional Competition (ANARC)**, *ACM International Collegiate Programming Competition, AlAkhawayn University.*
- 2000** **3rd place in the Arab and North African Regional Competition (ANARC)**, *ACM International Collegiate Programming Competition, The American University in Cairo.*
- 1999 – 2002** **Dean's Honors List 7 consecutive semesters**, *Computer Science Department, Kuwait University*

Teaching

† graduate level

1. **Applied Data Science**, *Course Developer & Instructor, NYU Abu Dhabi*
- Taught: *Spring 2021, Fall 2021, Spring 2022, Spring 2023, Fall 2023*
2. **Introduction to Programming †**, *Course Developer & Instructor, NYU Abu Dhabi*
- Taught: *Spring 2021, Jan 2022, Jan 2023*
3. **Computational Social Science**, *Course Developer & Instructor, NYU Abu Dhabi*
- Taught: *Fall 2022*
4. **Computational Social Science †**, *Teaching Assistant, Masdar Institute of Science & Technology*
- Taught: *Fall 2017*
5. **Multimodal Data Mining †**, *Teaching Assistant, Masdar Institute of Science & Technology*
- Taught: *Fall 2014, Spring 2017*
6. **Teaching at a University Level †**, *Teaching Assistant, Masdar Institute of Science & Technology*
- Taught: *Spring 2015, Fall 2016*

7. **Computer Science for Non-Engineers**, *Head Teaching Assistant, University of Illinois at Urbana-Champaign*
- Taught: Spring 2007 (Teaching Assistant), Fall 2007 (Head Teaching Assistant)
 - Class of over 500 students, with 9 Teaching Assistants and 1 Head Teaching Assistant.

Mentoring

Postdoctoral Advising

- 2023-present **Kurt Kuehne**, NYU Abu Dhabi
2022-present **Maria Sahakyan**, NYU Abu Dhabi

Ph.D. Advising

- 2020-present **Fengyan (Michael) Liu**, Computer Science Department, New York University.

Research Advising

- 2023-present **Kareem El-Rafei**, Research Assistant, NYU Abu Dhabi
2023-present **Freya Yao**, Research Fellowship, NYU Abu Dhabi
2023-present **Tianxio (Michael) Xu**, Research Fellowship, NYU Abu Dhabi
2022-present **Shehryar Subhani**, Student Research Assistant, NYU Abu Dhabi
2020-2023 **Shahan Ali Memon**, Research Assistant, NYU Abu Dhabi

Capstone Advising

- 2022-2023 **Cameron J. Wehr**, Capstone in Social Research and Public Policy, NYU Abu Dhabi
Capstone Title: "*Gender Expression and Repression: The Relationship between Trans Policies and Transgender Hate Crime Prevalence*" (**Capstone Award**)
- Tianxio (Michael) Xu**, Capstone in Economics, NYU Abu Dhabi
Capstone Title: "*The Impact of COVID-Related Health Concerns on U.S. Consumer Demand*" (**Capstone Award**)
- Sarah Khan**, Capstone in Economics, NYU Abu Dhabi
Capstone Title: "*Does a High Racial Match Between the Community & the Police Correspond to a Lower Number of Recorded Violent Crimes?*"
- João Bosco de Lucena**, Capstone in Economics, NYU Abu Dhabi
Capstone Title: "*Did the 2008 Financial Crisis Increase Mortality? A Global Analysis*"
- 2021-2022 **Dania Herzallah**, Capstone in Computer Science, NYU Abu Dhabi
Capstone Title: "*Analyzing the Human Sorting Algorithm*"
- Hochan Lee**, Capstone in Economics, NYU Abu Dhabi
Capstone Title: "*Mapping Career Trajectories of Postdocs: A data-driven approach using Microsoft Academic Graph and LinkedIn Dataset*"

Service

NYU Abu Dhabi

- Fall 2023 – present** **Working group for the Computational Social Science minor design, Member**
- 2022 – 2023** **Open Rank Faculty Search in Computational Social Science, Committee Member**
- Fall 2021** **Instructor Search in SRPP, Committee Member**
- Fall 2021** **Social Science Librarian Search, Committee Member**

Profession

Organiser:

1. **WICSS–Abu Dhabi**, *Winter Institute of Computational Social Science - Abu Dhabi (Jan 2024)*

Program Committee:

1. **IC2S2**, *International Conference on Computational Social Science (2019, 2023, 2024)*.
2. **ICSSI**, *International Conference on the Science of Science and Innovation (2023, 2024)*.

Reviewer:

1. **Nature Human Behaviour**
2. **ELife**
3. **Scientometrics**
4. **PLOS One**