




# Bedoor AlShebli

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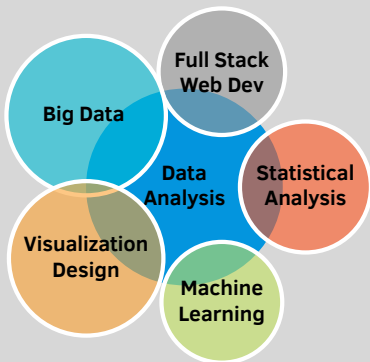
 /in/bedoor

## Research Interests

- Science of Science
- Data science
- Computational Social Science
- Big Data
- Machine learning
- Social networks
- Database and Information Systems
- Data Mining

## Skills

### Overview



### Programming

0 LOC → 10000 LOC

Python • JS • HTML • D3.js • Dask

LaTeX • Java • SQL • CSS • PHP

C • C++ • R

## Current Position

Sept 2020 - **Assistant Professor of Computational Social Science**  
Current *Social Science Division, NYU, Abu Dhabi*

## Education

2013 - 2017 **PhD. in Interdisciplinary Engineering** (GPA: 3.86/4.0)  
*Masdar Institute, part of Khalifa University of Science and Technology*  
Thesis Title: *Diversity: Trendy Buzzword or Scientific Imperative?*  
Committee: Wei Lee Woon (Chair), Talal Rahwan, Iyad Rahwan (MIT)

2003 - 2005 **MSc. in Computer Science** (GPA: 3.85/4.0)  
*University of Illinois Urbana-Champaign*  
Thesis Title: *Mapping Maintenance for Data Management*

1999 - 2002 **BSc. in Computer Science** (GPA: 3.94/4.0, MPA: 3.97/4.0)  
*Kuwait University*

## Publications

### PEER-REVIEWED JOURNALS

1. M. Waniek, G. Raman, **B. AlShebli**, J.C-H. Peng, T. Rahwan. "Traffic networks are vulnerable to disinformation attacks." *Scientific Reports*, 2021
2. M. J. Salganik et al. "Measuring the predictability of life outcomes with a scientific mass collaboration." *Proceedings of the National Academy of Sciences*, 2020.
3. G. Raman, **B. AlShebli**, M. Waniek, T. Rahwan, J. C. H. Peng. "How weaponizing disinformation can bring down a city's power grid", *PLOS One*, 2020.
4. **B. AlShebli**, T. Michalak, O. Skibski, M. Wooldridge, T. Rahwan. "A Measure of Added Value in Coalitions". *ACM Transactions on Autonomous and Adaptive Systems*. 2019.
5. **B.K. AlShebli**, T. Rahwan, W.L. Woon, "The Preeminence of Ethnic Diversity in Scientific Collaboration", *Nature Communications*, 2018.
6. A. Alabdulkareem, M.R. Frank, L. Sun, **B. AlShebli**, C. Hidalgo, and I. Rahwan, "Unpacking the polarization of workplace skills", *Science Advances*, 2018.

### PEER-REVIEWED CONFERENCES

1. **B. AlShebli**, A. Alibasic, W.L. Woon, D. Svetinovic, "Kanban-based framework for analysis of heterogeneous academic data". *Telecommunication Forum (TELFOR)*, 2017.
2. N. Kenan, M. Attiya, and **B. AlShebli**. "A Closed-Loop Capacitated Warehouse Location Model with Risk Pooling." *In Logistics Operations, Supply Chain Management and Sustainability*. Springer International Publishing, 2014.
3. **B.K. AlShebli**, and K. Karahalios. "The impact of culture on collaborative technologies." *Proceedings of CHI*. 2007.
4. **B.K. AlShebli**, E. Gilbert and K. Karahalios. "The social implications of an assisted living reminder system". *In International Conference on Online Communities and Social Computing*. 2007.

5. Hou, J.C., Wang, Q., **AlShebli, B.K.**, Ball, L., Birge, S., Caccamo, M., Cheah, C.F., Gilbert, E., Gunter, C.A., Gunter, E. and Lee, C.G., 2007, June. "Pas: A wireless-enabled, sensor-integrated personal assistance system for independent and assisted living." *In High Confidence Medical Devices, Software, and Systems and Medical Device Plug-and-Play Interoperability*, 2007. IEEE.
6. Wang, Q., Shin, W., Liu, X., Zeng, Z., Oh, C., **AlShebli, B.K.**, Caccamo, M., Gunter, C.A., Gunter, E., Hou, J. and Karahalios, K., 2006, October. "I-Living: An open system architecture for assisted living." *In Systems, Man and Cybernetics*, 2006. IEEE.
7. McCann, R., **AlShebli, B.**, Le, Q., Nguyen, H., Vu, L. and Doan, A. "Mapping maintenance for data integration systems." *In Proceedings of the 31st international conference on Very large data bases. VLDB Endowment*. 2005.

#### UNDER PEER-REVIEW

1. F. Liu, P. Holme, M. Chiesa, **B. AlShebli**, T. Rahwan. "Traces of editors impeding a fair and inclusive scientific publishing". *Revise and Resubmit, Nature Human Behavior*
2. M. Chaqfeh, R. Asim, **B. AlShebli**, M. F. Zaffar, T. Rahwan, Y. Zaki. "Towards a World Wide Web without digital inequality". *Revise and Resubmit, Nature Communications*
3. **B. AlShebli**, E. Cheng, R. Jagannathan, P. Hernández-Lago, T. Rahwan. "Beijing's Central Role in Global Artificial Intelligence Research". *Under Review*

#### INVITED TALKS

1. **B. AlShebli** (Oct 2021) "The Preeminence of Ethnic Diversity in Scientific Collaboration". *9th Computational Social Science satellite event, Lyon, France*
2. **B. AlShebli** (Aug 2021) "The Preeminence of Ethnic Diversity in Scientific Collaboration". *Science of Innovation and Success Workshop, Waseda University, Japan*
3. **B. AlShebli** (May 2021) "The Preeminence of Ethnic Diversity in Scientific Collaboration". *Computer Science Department, Gulf University of Science and Technology, Kuwait*

#### CONFERENCE PRESENTATIONS

1. **B. AlShebli** (2021) "The Preeminence of Ethnic Diversity in Scientific Collaboration". *9th Computational Social Science satellite event, Conference on Complex Systems, Lyon, France*
2. **B. AlShebli** (2019) "Age Diversity Increases Scientific Impact". *IC2S2, University of Amsterdam, The Netherlands*
3. **B. AlShebli** (2019) "The Preeminence of Ethnic Diversity in Scientific Collaboration". *IC2S2, University of Amsterdam, The Netherlands*

## Honors and Awards

- 2013-2017 Full scholarship towards a PhD degree from Masdar Institute
- Fall 2007 UIUC Campus List of Outstanding Teachers
- Spring 2007 UIUC Campus List of Excellent Teachers
- 2003-2005 Full scholarship towards an MSc degree from Saudi Arabian Cultural Mission
- May 2005 Prince Bandar Bin Sultan Award for best MSc Thesis in Computer Science (\$5,000)
- Nov 2001 2nd place in ACM International Collegiate Programming Competition (ANARC)
- Nov 2000 3rd place in ACM International Collegiate Programming Competition (ANARC)
- 1999-2002 Kuwait University's Dean's Honors List 7 consecutive semesters

## Teaching Experience

- Spring 2022,  
Fall 2021, **Instructor** New York University, Abu Dhabi  
Spring 2021 **Applied Data Science using Python (UG Level)**
- J-Term 2022, **Instructor** New York University, Abu Dhabi  
Spring 2021 **Introduction to Programming (MS Level)**
- Fall 2017 **Teaching Assistant** Masdar Institute  
**Computational Social Science (PhD Level)**
- Spring 2017, **Teaching Assistant** Msadar Institute  
Fall 2014 **Multimodal Data Mining (PhD Level)**
- Fall 2016, **Teaching Assistant** Masdar Institute  
Spring 2015 **Teaching at a University Level (PhD Level)**
- Fall 2007 **Head Teaching Assistant** UIUC  
**CS105: Computer Science for Non-Engineers (UG Level)**
- Spring 2003 **Lecturer** Navigation & Telecom. Inst., KWT  
**Introduction to Microsoft Office**
- Fall 2002 **Programming Coach** Kuwait University  
**ACM International Collegiate Programming Contest - Arab and North African Regional Contest (ANARC)**

## Mentoring Experience

- Sept 2020 - **PhD Thesis Advising** New York University, Abu Dhabi  
Current Fengyuan M. Lui  
(*PhD in Computer Science, expected graduation date: May 2024*)
- 2020 - **Senior Thesis Advising** New York University, Abu Dhabi  
Current *Class of 2022:* Dania Herzellah (Computer Science), Hochan Lee (Economics)

## Academic Service

- at NYUAD:** New York University, Abu Dhabi  
- Social Science Librarian Search Committee (*Fall 2021*)  
- Freshmen Undergraduate Mentoring (*2020 - Current*)
- as Reviewer**  
*2020:* Scientometrics, PloS One

## Other Research Experience

- Jan 2019 - **Post-Doctoral Associate** NYU, Abu Dhabi  
Aug 2020 *Data Science and AI Lab, Computer Science Department*
- Jan 2018 - **Post-Doctoral Fellow** Khalifa University  
Dec 2018 *Computer Science Department*
- Jan 2016 - **Visiting Scholar** Media Lab, MIT  
May 2016 *Scalable Cooperation Lab*
- Aug 2013 - **Research Associate** Masdar Institute  
Dec 2017 *Computer Science Department*
- Aug 2003 - **Research Assistant** University of Illinois, Urbana-Champaign  
Dec 2008 *Computer Science Department*

## Demographics

- **DOB:** 05/05/82
- **Gender:** Female
- **Nationality:** Saudi Arabian

## Languages

- Arabic (Native)
- English (Fluent)

## References

### • Academia:

1. **Dr. Wei Lee Woon**  
(PhD Advisor):  
wlwoon@deeplearn.net
2. **Dr. Talal Rahwan**  
(PhD Co-Advisor):  
tr72@nyu.edu
3. **Dr. Iyad Rahwan**  
(RSC Member):  
irahwan@mit.edu
4. **Dr. Karrie Karahalios**  
(MSc Advisor):  
kkarahal@cs.uiuc.edu

### • Industry:

1. **Mr Mohammed AlModhayan**  
(Previous Co-Founder & Head of Dept at TMD):  
modhayan@maestropizza.com
2. **Ms Reem AlHunaidi**  
(General Manager - Ibtikar, Brikwood Grp):  
ralhunaidi@alghanim.com
3. **Mr Shaker AlEssa**  
(Previous Waste Management Director at MRC):  
s.alesa@deematrading.com

## Industry Experience

- 2012-2015 **Application Projects Manager Shareholder / Boardmember** The Marketing Dept (TMD)
- Managed some of the region's largest companies online services. Such as, Nada Dairy's website and online FB application contest "Blend Us a Mix" & "Blend Us a Shake".
  - I was also a shareholder and an active board member in this company from May 2015 until March 2018.
- 2010-2014 **Project & Scientific Research Manager Scientific Committee Member / Judge** Ibtikar Research Competition, KWT
- Ibtikar Kuwait is a science research competition and a non-profit corporation dedicated to aiding and increasing access to higher education for talented research-oriented female students in Kuwait.
  - My responsibilities included setting up the competition, which included writing the rules & regulations and judging criteria, setting up the competition's identity, promoting the competition, going on a road show to talk to students of public schools in all regions. I also managed the development of the competition website: www.ibtikar.com.kw, and much more.
- 2011-2012 **Project Manager of the NewAir Project** Metal Recycling Co (MRC)
- NewAir is a recycling program that collects recyclables from companies, hotels, schools, gov sectors and households.
  - During my time at NewAir, I was responsible for recruiting and training the employees in my department, communicating job expectations, contributing information and recommendations to strategic plans, meeting financial objectives by forecasting requirements.
  - The highlights of my contributions whilst running NewAir were: creating their customer call center, initiating a national awareness campaign, more than tripled the number of trucks collecting recyclables, and set up online marketing tools to spread awareness.
- 2009 **Research and Information Department Associate Manager** CSR
- Established the Research and Information Department
  - Created the company's website, which includes a dynamic web system for member logins, offering certain services to its clients
  - Set up the company's intranet and email server system
  - Was responsible for designing, developing and implementing a web-based database system where everyday qualitative and quantitative data created/retrieved by their analysts is stored.
- 2008-2009 **Training Development Manager** UASC, UAE
- Responsible for rolling in and training all agencies / branches in all regions on using the new system, TRUST
  - Developed and taught a "Train The Trainer Course".
  - Assisted in the development of the company's TRUST Help Desk.
  - Responsible for testing, debugging, and enhancement of TRUST.
  - Provided consultation during the implementation phase.
- 2002-2003 **Quality Assurance Officer / Former ICDL Exam Tester** RedSoft
- Participant in establishment & coordination of the ICDL (International Computer Driving License) in Kuwait.
  - Monitor ICDL testing & training centers in Kuwait, to ensure the application of international quality standard.