

New York University Abu Dhabi, United Arab Emirates, P. O. Box 129188, Office A2 177  
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## EDUCATION

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- MAY 2013    **PhD Computer Science**, Yale University, USA  
Thesis: Example-Driven Query Synthesis<sup>47</sup>  
Advisors: Avi Silberschatz (Yale), Dana Angluin (Yale) & Joe Hellerstein (UC Berkeley)  
Scholarships: NSERC Canada PGS-D scholarship in the US (63,000 CAD);  
Declined Alexander Graham Bell Canada Graduate Scholarship (105,000 CAD)
- MAY 2008    **Master of Computer Science**, Dalhousie University, Canada  
Thesis: A Business Activity Monitoring System Designed with End-users in Mind  
Advisors: Jacob Slonim (Dalhousie)  
Scholarships: Killam Pre-doctoral Scholar and NSERC Canada Graduate Scholarship (17,500 CAD)
- MAY 2007    **Bachelor of Computer Science with First Class Honors**, Dalhousie University, Canada  
Thesis: Automatically classifying encrypted network traffic data  
Awards: Gold Award for Best Academic Performance (2003-2006) GPA: 4.23/4.3;  
Ada Byron Award for female role models and leaders

## RESEARCH & WORK EXPERIENCE

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- JAN 2021-  
PRESENT    Associate Professor of Computer Science, New York University Abu Dhabi (NYUAD)  
Global Network Associate Professor of Computer Science & Engineering, Tandon School of Engineering, NYU  
Director of the [Human Data Interaction \(HuDa\) Lab](#), NYUAD
- AUG 2013-  
JAN 2021    Assistant Professor of Computer Science, New York University Abu Dhabi (NYUAD)  
Global Network Assistant Professor of Computer Science & Engineering, Tandon School of Engineering, NYU  
Director of the [Human Data Interaction \(HuDa\) Lab](#), NYUAD
- AUG 2011-  
MAY 2012    Visiting Scholar  
University of California, Berkeley
- SUMMER  
2010        Research Intern  
Yahoo! Research, San Jose, USA
- FALL  
2007        Research Intern  
Business Objects, Vancouver, Canada

## RESEARCH HONORS & AWARDS

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2022	Appreciation Award, Abu Dhabi Public Health Center, Contributions to the Research Committee of COVID-19
2020	VLDB Best Demo Award
2019	VLDB Test of Time Award
2019	Communications of the ACM (CACM) Research Highlight
2018	CHI Best Paper Award
2017	ACM SIGMOD Research Highlight Award
2017	ACM IUI Best Paper Award - Honorable Mention
2016	Best Papers of VLDB 2016
2008	Business Objects Innovation Award

## TEACHING EXPERIENCE

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Since Fall 2013, I have taught the following courses. Syllabi, course lectures, videos, etc can be found in the links

Operating Systems	<a href="https://azzadev.github.io/osbook/">https://azzadev.github.io/osbook/</a> - passcode: os2022
Database Systems	<a href="https://azzadev.github.io/dbcrsbook/">https://azzadev.github.io/dbcrsbook/</a> - passcode: nyuaddb
Data	<a href="https://azzadev.github.io/databook/">https://azzadev.github.io/databook/</a> - passcode: data

## GRANTS

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JAN 2024-	<b>Bridging Language Gaps in Nursing Education: Generative AI for Arabic-Speaking Emirati Nursing Students</b>
DEC 2024	Funded by Mubadala Principal Investigator <b>Awarded 44,000 AED</b>
DEC 2021-	<b>Scalable Delta Processing of Constrained Optimization Queries</b>
DEC 2024	Funded by ASPIRE AARE Principal Investigator <b>Awarded 856,214 AED</b>
FEB 2021-	<b>Assessing the Threat Levels of Misinformation Campaigns</b>
AUG 2022	Funded by NYUAD CITIES and CCS Principal Investigator   <i>PI: Christina Popper</i> <b>Awarded 200,000 USD</b>
JULY 2020-	<b>COVID-19 Facilitator Research Fund: Integrating Policy Optimization</b>
JUNE 2021	<b>in Epidemic Modeling</b> Funded by The NYUAD Research Institute Principal Investigator <b>Awarded 30,000 USD</b>
SEP 2019-	<b>Center for Interacting Urban Networks (CITIES)</b>
SEP 2024	Funded by The NYUAD Research Institute & Swiss Re Principal Investigator - Digital/Physical Cluster   <i>PIs: Monica Menendez (Lead PI), Kinga Makovi (Social/Digital) and Saif Jabari (Social/Physical)</i> <b>Awarded 8,317,002 USD</b> 6,317,002 USD from The NYUAD Research Institute; 2,000,000 USD from Swiss Re

SEP 2014- **III: Small: Collaborative Research: The Package Query Paradigm**  
 SEP 2017 Funded by the National Science Foundation (NSF)  
 Principal Investigator  
 | PI: Alexandra Meliou (UMass)  
**Awarded 248,603.00 USD**  
 Total grant amount: 498,530 USD

OCT 2019- **Eager: In-Database Prescriptive Analysis under Uncertainty**  
 SEP 2021 Funded by the National Science Foundation (NSF)  
 Consultant  
 | I withdrew as a PI due to new NSF eligibility rules  
 | PIs: Peter Haas (UMass) and Alexandra Meliou (UMass)  
**Awarded 299,317 USD**

## PUBLICATIONS

### Papers in Journals & Conference Proceedings

2024

1. Anh Mai, Pengyu Wang, Azza Abouzied, Matteo Brucato, Peter J. Haas, and Alexandra Meliou. "Scaling Package Queries to a Billion Tuples via Hierarchical Partitioning and Customized Optimization". In: *Proc. VLDB Endow.* 17 (5 2024).

2023

2. Anh L. Mai, Nikunj Gupta, Azza Abouzied, and Dennis E. Shasha. "Planning Multiple Epidemic Interventions with Reinforcement Learning". In: *Proceedings of the Thirty-Second International Joint Conference on Artificial Intelligence, IJCAI 2023, 19th-25th August 2023, Macao, SAR, China.* ijcai.org, 2023, pp. 6147–6155.
3. Shujaat Mirza, Labeeba Begum, Liang Niu, Sarah Pardo, Azza Abouzied, Paolo Papotti, and Christina Popper. "Tactics, threats and targets: Modeling disinformation and its mitigation". In: *NDSS 2023, Network and Distributed System Security Symposium, 27 February-3 March 2023, San Diego, California, USA.* Ed. by Usenix. San Diego, 2023.

2022

4. Azza Abouzied, Peter J. Haas, and Alexandra Meliou. "In-Database Decision Support: Opportunities and Challenges". In: *IEEE Data Eng. Bull.* 45.3 (2022), pp. 102–115.

2021

5. Anh Le Xuan Mai, Miro Mannino, Zain Tariq, Azza Abouzied, and Dennis Shasha. "EpiPolicy: A Tool for Combating Epidemics". In: *XRDS* 28.2 (Jan. 2022). **Featured Research Article**, pp. 24–29.
6. Zain Tariq, Miro Mannino, Mai Le Xuan Anh, Whitney Bagge, Azza Abouzied, and Dennis Shasha. "Planning Epidemic Interventions with EpiPolicy". In: *The 34th Annual ACM Symposium on User Interface Software and Technology.* UIST '21. Virtual Event, USA: Association for Computing Machinery, 2021, pp. 894–909.

2020

7. Matteo Brucato, Nishant Yadav, Azza Abouzied, Peter J. Haas, and Alexandra Meliou. "Stochastic Package Queries in Probabilistic Databases". In: *Proceedings of the 2020 ACM SIGMOD International Conference on Management of Data.* SIGMOD '20. Portland, OR, USA: Association for Computing Machinery, 2020, pp. 269–283.

2019

8. Azza Abouzied, Daniel J. Abadi, Kamil Bajda-Pawlikowski, and Avi Silberschatz. "Integration of Large-Scale Data Processing Systems and Traditional Parallel Database Technology". In: *Proc. VLDB Endow.* 12.12 (Aug. 2019). **VLDB Test of Time Award**, pp. 2290–2299.

9. Matteo Brucato, Azza Abouzied, and Alexandra Meliou. “Scalable Computation of High-order Optimization Queries”. In: *Communications of the ACM* 62.2 (Jan. 2019). **CACM Research Highlight**, pp. 108–116.
10. Miro Mannino and Azza Abouzied. “Is This Real? Generating Synthetic Data That Looks Real”. In: *Proceedings of the 32nd Annual ACM Symposium on User Interface Software and Technology*. UIST ’19. New Orleans, LA, USA: Association for Computing Machinery, 2019, pp. 549–561.

2018

11. Matteo Brucato, Azza Abouzied, and Alexandra Meliou. “Package queries: efficient and scalable computation of high-order constraints”. In: *The VLDB Journal* 27.5 (Oct. 2018). **Special Issue - Best of VLDB**, pp. 693–718.
12. Miro Mannino and Azza Abouzied. “Expressive Time Series Querying with Hand-Drawn Scale-Free Sketches”. In: *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems*. CHI ’18. **Best Paper Award**. Montreal QC, Canada: ACM, 2018, 388:1–388:13.

2017

13. Juan Felipe Beltran, Ziqi Huang, Azza Abouzied, and Arnab Nandi. “Don’t Just Swipe Left, Tell Me Why: Enhancing Gesture-based Feedback with Reason Bins”. In: *Proceedings of the 22Nd International Conference on Intelligent User Interfaces*. IUI ’17. **Best Paper Award - Honorable Mention**. Limassol, Cyprus: ACM, 2017, pp. 469–480.
14. Matteo Brucato, Azza Abouzied, and Chris Blauvelt. “Redistributing Funds across Charitable Crowdfunding Campaigns”. In: *CoRR* abs/1706.00070 (2017).
15. Matteo Brucato, Azza Abouzied, and Alexandra Meliou. “Scalable algorithms for package query evaluation in relational database systems”. In: *SIGMOD Record* 46.1 (Mar. 2017). **ACM SIGMOD Research Highlight Award**.
16. Maeda F. Hanafi, Azza Abouzied, Laura Chiticariu, and Yunyao Li. “Synthesizing Extraction Rules from User Examples with SEER”. In: *Proceedings of the 2017 ACM International Conference on Management of Data*. SIGMOD ’17. Chicago, Illinois, USA: Association for Computing Machinery, 2017, pp. 1687–1690.
17. Maeda Hanafi, Azza Abouzied, Laura Chiticariu, and Yunyao Li. “SEER: Learning Information Extraction Rules from User-Specified Examples”. In: *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*. CHI ’17. Denver, CO, USA: ACM, 2017.

2016

18. Matteo Brucato, Juan Felipe Beltran, Azza Abouzied, and Alexandra Meliou. “Scalable Package Queries in Relational Database Systems”. In: *Proc. VLDB Endow.* 9.7 (Mar. 2016). **Best Papers of VLDB 2016**, pp. 576–587.
19. Jay Chen and Azza Abouzied. “One LED is Enough: Catalyzing Face-to-face Interactions at Conferences with a Gentle Nudge”. In: *Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work & Social Computing*. CSCW ’16. San Francisco, California, USA: ACM, 2016, pp. 172–183.
20. Jay Chen, Azza Abouzied, David Hutchful, Joy Ming, and Ishita Ghosh. “Printr: Exploring the Potential of Paper-based Tools in Low-resource Settings”. In: *Proceedings of the Eighth International Conference on Information and Communication Technologies and Development*. ICTD ’16. Ann Arbor, MI, USA: ACM, 2016, 23:1–23:11.
21. Md. Rashidujjaman Rifat, Aysha Siddique, Azza Abouzied, and Jay Chen. “From Alley to Landfill: Challenges of and Design Opportunities for Cleaning Dhaka’s Communal Trash”. In: *Proceedings of the Eighth International Conference on Information and Communication Technologies and Development*. ICTD ’16. Ann Arbor, MI, USA: ACM, 2016, 9:1–9:10.

2015

22. Azza Abouzied and Jay Chen. “Harnessing Data Loss with Forgetful Data Structures”. In: *Proceedings of the Sixth ACM Symposium on Cloud Computing*. SoCC ’15. Kohala Coast, Hawaii: ACM, 2015, pp. 168–173.
23. Juan Felipe Beltran, Aysha Siddique, Azza Abouzied, and Jay Chen. “Codo: Fundraising with Conditional Donations”. In: *Proceedings of the 28th Annual ACM Symposium on User Interface Software & Technology*. UIST ’15. Daegu, Kyungpook, Republic of Korea: ACM, 2015, pp. 213–222.

24. Ishita Ghosh, Jay Chen, Joy Ming, and Azza Abouzied. “The Persistence of Paper: A Case Study in Microfinance from Ghana”. In: *Proceedings of the Seventh International Conference on Information and Communication Technologies and Development*. ICTD '15. Singapore, Singapore: ACM, 2015, 13:1–13:10.

2013 - 2014

25. Azza Abouzied, Daniel J. Abadi, and Avi Silberschatz. “Invisible Loading: Access-driven Data Transfer from Raw Files into Database Systems”. In: *Proceedings of the 16th International Conference on Extending Database Technology*. EDBT '13. Genoa, Italy: ACM, 2013, pp. 1–10.
26. Azza Abouzied, Dana Angluin, Christos Papadimitriou, Joseph M. Hellerstein, and Avi Silberschatz. “Learning and Verifying Quantified Boolean Queries by Example”. In: *Proceedings of the 32nd ACM SIGMOD-SIGACT-SIGAI Symposium on Principles of Database Systems*. PODS '13. New York, New York, USA: ACM, 2013, pp. 49–60.

Earlier

27. Azza Abouzied, Joseph Hellerstein, and Avi Silberschatz. “DataPlay: Interactive Tweaking and Example-driven Correction of Graphical Database Queries”. In: *Proceedings of the 25th Annual ACM Symposium on User Interface Software & Technology*. UIST '12. Cambridge, Massachusetts, USA: ACM, 2012, pp. 207–218.
28. Azza Abouzeid, Kamil Bajda-Pawlikowski, Daniel Abadi, Avi Silberschatz, and Alexander Rasin. “HadoopDB: An Architectural Hybrid of MapReduce and DBMS Technologies for Analytical Workloads”. In: *Proc. VLDB Endow.* 2.1 (Aug. 2009), pp. 922–933.

#### Demos, Posters, Workshop Papers and Technical Reports

29. Anh Mai, Nikunj Gupta, Azza Abouzied, and Dennis E. Shasha. “Planning Multiple Epidemic Interventions with Reinforcement Learning”. In: *CoRR abs/2301.12802* (2023). arXiv: [2301.12802](https://arxiv.org/abs/2301.12802).
30. Liam Richards Maldonado, Azza Abouzied, and Nancy W. Gleason. “ReaderQuizzer: Augmenting Research Papers with Just-In-Time Learning Questions to Facilitate Deeper Understanding”. In: *Companion Publication of the 2023 Conference on Computer Supported Cooperative Work and Social Computing*. CSCW '23 Companion. Minneapolis, MN, USA: Association for Computing Machinery, 2023, pp. 391–394.
31. Ashraf Aboulnaga, Azza Abouzied, Karima Echihabi, and Mourad Ouzzani. “Database Systems Research in the Arab World: A Tradition That Spans Decades”. In: *Commun. ACM* 64.4 (Mar. 2021), pp. 120–123.
32. Matteo Brucato, Miro Mannino, Azza Abouzied, Peter J. Haas, and Alexandra Meliou. “SPaQLTooLs: A Stochastic Package Query Interface for Scalable Constrained Optimization”. In: *Proc. VLDB Endow.* 13.12 (Aug. 2020). **VLDB Best Demo Award**, pp. 2881–2884.
33. Maeda Hanafi, Azza Abouzied, Marina Danilevsky, and Yunyao Li. “WhyFlow: Explaining Errors in Data Flows Interactively”. In: *Workshop on Data Science with Human in the Loop (DaSH)*. KDD '20. Virtual Conference, 2020.
34. Miro Mannino and Azza Abouzied. “Synner: Generating Realistic Synthetic Data”. In: *Proceedings of the 2020 ACM SIGMOD International Conference on Management of Data*. SIGMOD '20. Portland, OR, USA: Association for Computing Machinery, 2020, pp. 2749–2752.
35. Maeda F. Hanafi, Miro Mannino, and Azza Abouzied. “A Collaborative Framework for Structure Identification over Print Documents”. In: *Proceedings of the Workshop on Human-In-the-Loop Data Analytics*. HILDA'19. Amsterdam, Netherlands: Association for Computing Machinery, 2019.
36. Miro Mannino and Azza Abouzied. “Qetch: Time Series Querying with Expressive Sketches”. In: *Proceedings of the 2018 International Conference on Management of Data*. SIGMOD '18. Houston, TX, USA: ACM, 2018, pp. 1741–1744.
37. Azza Abouzied. “The Presentation of Synthesized Artifacts in Example-driven Interfaces”. In: *AWARE Workshop on Awareness Interfaces and Interactions*, IUI '17. 2017.
38. Matteo Brucato, Azza Abouzied, and Chris Blauvelt. “Redistributing Funds across Charitable Crowdfunding Campaigns”. In: *CoRR abs/1706.00070* (2017).

39. Maeda F. Hanafi, Azza Abouzied, Laura Chiticariu, and Yunyao Li. “Synthesizing Extraction Rules from User Examples with SEER”. In: *Proceedings of the 2017 ACM International Conference on Management of Data*. SIGMOD ’17. Chicago, Illinois, USA: Association for Computing Machinery, 2017, pp. 1687–1690.
40. Ziqi Huang, Juan Felipe Beltran, Azza Abouzied, and Arnab Nandi. “Beyond Binary Gestures: Exploring Documents Using Touch Interfaces”. In: *Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems*. CHI EA ’15. Seoul, Republic of Korea: ACM, 2015, pp. 1747–1751.
41. Azza Abouzied and Jay Chen. “CommonTies: A Context-aware Nudge Towards Social Interaction”. In: *Proceedings of the Companion Publication of the 17th ACM Conference on Computer Supported Cooperative Work & Social Computing*. CSCW Companion ’14. Baltimore, Maryland, USA: ACM, 2014, pp. 1–4.
42. Azza Abouzied and Jay Chen. “The Garbage Problem and what can we do about it?” In: *KDD @ Bloomberg*. 2014.
43. Matteo Brucato, Azza Abouzied, and Alexandra Meliou. “Improving Package Recommendations Through Query Relaxation”. In: *Proceedings of the First International Workshop on Bringing the Value of “Big Data” to Users (Data4U 2014)*. Data4U ’14. Hangzhou, China: ACM, 2014, 13:13–13:18.
44. Matteo Brucato, Rahul Ramakrishna, Azza Abouzied, and Alexandra Meliou. “PackageBuilder: From Tuples to Packages”. In: *Proc. VLDB Endow.* 7.13 (Aug. 2014), pp. 1593–1596.
45. Kevin Fernandes, Matteo Brucato, Rahul Ramakrishna, Azza Abouzied, and Alexandra Meliou. “PackageBuilder: Querying for Packages of Tuples”. In: *Proceedings of the 2014 ACM SIGMOD International Conference on Management of Data*. SIGMOD ’14. Snowbird, Utah, USA: ACM, 2014, pp. 1613–1614.
46. Joy Ming, Ishita Ghosh, Jay Chen, and Azza Abouzied. “Printing Paper Technology for Development”. In: *Proceedings of the Fifth ACM Symposium on Computing for Development*. ACM DEV-5 ’14. San Jose, California, USA: ACM, 2014, pp. 117–118.
47. Azza Abouzied, Joseph M. Hellerstein, and Avi Silberschatz. “Playful Query Specification with DataPlay”. In: *Proc. VLDB Endow.* 5.12 (Aug. 2012), pp. 1938–1941.
48. Azza Abouzied, Kamil Bajda-Pawlikowski, Jiewen Huang, Daniel J. Abadi, and Avi Silberschatz. “HadoopDB in Action: Building Real World Applications”. In: *Proceedings of the 2010 ACM SIGMOD International Conference on Management of Data*. SIGMOD ’10. Indianapolis, Indiana, USA: ACM, 2010, pp. 1111–1114.

### Theses

49. Azza Abouzied. “Example-Driven Query Synthesis”. PhD thesis. Yale University, 2013.
50. Azza Abouzied. “A Business Activity Monitoring System Designed with End-users in Mind”. MA thesis. Dalhousie University, 2008.

### Edited Proceedings

51. Rada Chirkova, Vanessa Braganholo, Wim Martens, Divesh Srivastava, Pinar Tözü, Marianne Winslett, Jun Yang, Azza Abouzied, Lyublena Antova, Aaron J. Elmore, and et al., eds. *SIGMOD Record*. Vol. 48. 3. Association for Computing Machinery, 2019.
52. Azza Abouzied and Paolo Papotti, eds. *WebDB’18: Proceedings of the 21st International Workshop on the Web and Databases*. Houston, TX, USA: Association for Computing Machinery, 2018.

### PATENTS

53. Daniel Abadi and Azza Abouzied. *Data loading systems and methods*. US Patent 9,336,263. May 2016.
54. Sriram Rao, Adam Silberstein, Russell Sears, and Azza Abouzeid. *Methods and apparatuses for storing shared data files in distributed file systems*. US Patent 20,130,007,091. Jan. 2013.
55. A. Abouzied, J. Slonim, and M.J. McAllister. *Apparatus and method for facilitating continuous querying of multi-dimensional data streams*. US Patent 8,316,012. Nov. 2012.
56. Daniel Abadi, Kamil Bajda-pawlikowski, Azza Abouzied, and Avi Silberschatz. *Systems and methods for processing data*. US Patent 20,110,302,583. Dec. 2011.

57. A. Abouzied, J. Slonim, and M.J. McAllister. *Apparatus and method for dynamically materializing a multi-dimensional data stream cube*. US Patent 8,024,287. Sept. 2011.

## INVITED TALKS

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### Recent

DEC 2022	<b>Keynote Speaker</b> , DaSH at EMNLP 2022, Abu Dhabi, UAE
NOV 2022	CITIES Symposium, NYUAD - <i>Disinformation &amp; Its Mitigation</i>
NOV 2022	Research Institute Public Talk, NYUAD - <i>Decision-Making in a world of Uncertainty</i>
OCT 2022	Apple Research Seminar, Seattle, USA (Online) - <i>Decision-Making in Uncertain Environments</i>
OCT 2021	Data Lab Seminar Series, Northeastern University, Boston - <i>Prescriptive Analytics within Database Management Systems</i>
OCT 2021	TeachTalk Series, Hillary Ballon Center for Teaching and Learning, Teaching with a Living Textbook
MAY 2021	Database Seminar, UC Berkeley - <i>Scalable Data-Driven Decision-Making</i>
SEP 2020	<b>Keynote Speaker</b> at Future Data Conference: Supporting Decision-Makers in Uncertain Environments
AUG 2020	Panelist at 'Open challenges in human-computer cooperation in data science', DaSHKDD
NOV 2019	The Digital Nexus & AI, CITIES Symposium, NYUAD
AUG 2019	Test of Time Award Talk, VLDB
JULY 2019	Publication Strategies for New Researchers, SIGMOD New Researcher Symposium
JULY 2019	Invited Researcher to Dagstuhl Seminar Series on Data Series Management
JAN 2019	Database Seminar, Washington University (Host: Magdalena Balazinska)
JAN 2019	The Stanford-HCI Seminar on People, Computers and Design, Stanford University (Host: Michael Bernstein)
JAN 2019	Database Seminar, UC Santa Cruz (Host: Peter Alvaro)
OCT 2018	<b>Keynote Speaker</b> at DSIA: Data Systems for Interactive Analysis, IEEEVis

## PROFESSIONAL SERVICE

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### Editorial Boards & Program Committees

#### Recent

- 2023, Associate Chair, Computational Interaction subcommittee, ACM CHI Conference on Human Factors in Computing Systems (CHI)
- 2022, Associate Editor, Proceedings of Very Large Databases (VLDB)
- 2022, Associate Editor, ACM SIGMOD International Conference on Management of Data (SIGMOD)

From 2015-2021, I served as reviewer, associate editor, or column editor in the following conferences: CHI, SIGMOD, VLDB, ACM Symposium on User Interfaces and Software Technology (UIST), ACM Symposium on Cloud Computing (SoCC), IEEE International Conference on Data Engineering (ICDE) and even as an NSF panelist.

### Conference & Other Organizational Roles

#### Recent

- 2024, PC Chair (with Joe Hellerstein), ACM SIGMOD International Conference on Management of Data (SIGMOD)
- 2022, 2023, Jim Gray Doctoral Dissertation Award Selection Committee
- 2022, Chair, (with Michael Caferralla and Dominik Moritz) Workshop on Human-in-the-Loop Data Analytics, SIGMOD

I previously served as co-chair of the SIGMOD New Research Symposium, HILDA, 21st International Workshop on the Web and Databases (WebDB) and served on the SIGMOD Reproducibility Committee.

### University & Departmental Service

#### Recent

- 2023, Chair of the Faculty Council Steering Committee
- 2022, Science Representative on the Faculty Council Steering Committee
- Chaired a T/TT Faculty Search Committee
- Faculty Review Committee for two faculty
- Director of the Unix Lab & the CS Peer-Learning Program (Fall 2013-Fall 2022)

## STUDENTS

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### PhD students

- Anh Mai, NYU Courant. Expected Graduation May 2027.
- Junior Garcia, NYU Tandon. Expected Graduation May 2028.
- Dr. Matteo Brucato, University of Massachusetts, Amherst. Co-advised by Alexandra Meliou and Peter Haas. Graduated May 2021. Thesis topic: *Enabling Declarative and Scalable Prescriptive Analytics in Relational Data*. Senior Researcher at Microsoft Research
- Dr. Maeda Hanafi, NYU Tandon School of Engineering. Graduated May 2020. Thesis topic: *Human-in-the-Loop Tools for Constructing and Debugging Data Extraction Pipelines*. Senior Researcher at IBM Almaden Research

### Research Associates & Assistants

- Miro Mannino, Sep 2015-Present.
- Cole Beasley, Nov 2023-Present.

### Capstone Students & Projects

2023	Madina Yeleukina	<i>Aspect-based Product Review Summarization Using ChatGPT</i>
2023	Atib Jawad Zion	<i>Goodscroll: Redefining Digital Habits</i>
2023	Reem Hazim	<i>Misinformation &amp; Its Mitigation</i>
2023	Liam Richards	<i>The Generation of Guided Learning Reading Questions</i>
2023	Philip Wang	<i>Reimplementing SketchRefine for Faster Performance</i>
2023	Cole Beasley Muhammad Anas	<i>A Reinforcement Learning Agent for Managing Short Term Rentals</i>
2021	Lauren McMillen	<i>An Augmented Reality Tool for Non-Profits to Visualize Impact of Online Donations</i>
2021	Junior Garcia	<i>A Collaborative Real Estate Search Tool</i>

2020	Yousra El-Hassan	<i>Instructional Notebooks for SQL Queries</i>
2020	Anh Mai	<i>Epidemic Policy Optimizations to Control Outbreaks</i>
2020	Min Kyu Jung Bokang Jia	<i>A Database System for Scalable Data Generation</i>
2019	Emil Goldsmith	<i>Supporting Spatial Constraints for Property Search</i>
2019	Yana Chala Shantanu Bhatia	<i>Data-driven Clinical Decision Support</i>
2018	Abhimanyu Vasisth	<i>Visualizing Data Generation Outcomes</i>
2018	Jacqueline Abalo Andrew Callendar Cristhian Munoz Jaehurn Nam Mark Surnim	<i>Automated Structure Identification in PDF Documents</i>
2017	Moiri Gambioni	<i>Forgetful Data Structures for Storing Ephemeral Messages</i>
2016	Joe Jean	<i>CrowdEmpowered: a Crowdfunding Platform that Empowers Donors</i>
2015	Oleg Grishin	<i>Displayer: A System for Democratizing Interactive Public Displays</i>
2014	Anthony Spalvieri-Kruse	<i>Online Feedback Profiles for Digital Privacy Awareness</i>
2014	Jin U. Bak	<i>A Tool for Stock Chart Pattern Analysis</i>

### Research Interns

2016	Dian Yu
2015	Juan Felipe Beltran
2015	Aysha Siddique
2015	Md. Rashidujjaman Rifat
2014	Joy C. Ming
2014	Ishita Gosh