

## Candidate for Chair

Zachary Ives  
University of Pennsylvania, Philadelphia, PA, USA

### **BIOGRAPHY**

#### Academic Background:

Ph.D., University of Washington, 2002, Computer Science & Engineering.

#### Professional Experience:

Associate Dean of Master's & Professional Programs, School of Engineering & Applied Science, University of Pennsylvania, Philadelphia, PA, 2016 – Present;  
Professor (assistant thru full), Computer & Information Science Dept., University of Pennsylvania, Philadelphia, PA, 2003 – Present;  
Visiting Scientist, Google, Inc., Mountain View, CA, 2012 – 2013.

#### Professional Interest:

Data Integration; Databases; Scientific Data Management; Data Stream Management;  
Data Provenance.

#### ACM Activities:

Editorial Board, ACM SIGMOD Research Highlights, SIGMOD, 2016 – Present;  
Group Leader, 2018 SIGMOD Conference on Management of Data, SIGMOD, 2017 – Present;  
Program Co-Chair, 2015 ACM SIGMOD Conference on Management of Data, SIGMOD, 2014 – 2015.

#### Membership and Offices in Related Organizations:

Editorial Board, VLDB Journal, 2014 – Present;  
Editorial Board, IEEE Transactions on Knowledge and Data Engineering (TKDE), 2012 – 2016;  
Steering Committee, IEEE Transactions on Network Science and Engineering (TNSE), 2017 – Present.

#### Awards:

ICDE 10-Year Most Influential Paper Award, 2003;  
NSF CAREER Award, 2005.

### **STATEMENT**

SIGMOD is in an enviable position today: data management has reached new visibility in the era of big data and data science. The database research community is well positioned to extend beyond our traditional strengths (particularly data storage and query processing systems targeting the enterprise, cloud, and Web), to develop components that interoperate within, and help coordinate, open data discovery ecosystems that target new domains.

Our community excels at cross-cutting approaches, connecting theory to systems to applications.

SIGMOD has been building strong bridges to data science-related fields such as information extraction, algorithms, distributed systems, data mining, machine learning, and visualization. If elected, I hope to deepen these ties, and to foster similar connections to key application areas like biomedicine and the sciences. I would like to see us jointly formulate "challenge problems," testbeds, and specialized workshops, to encourage researchers to work together to address our hardest big data challenges, and potentially lead to new funding opportunities. I also believe SIGMOD can help educate academics and professionals about the roles our techniques play in the data science and big data realm. The data science revolution offers a great opportunity for the SIGMOD community to lead and to grow!

## Candidate for Chair

Juliana Freire  
New York University, NY, USA

### **BIOGRAPHY**

#### Academic Background:

Ph.D., SUNY at Stony Brook, 1997, Computer Science.

#### Professional Experience:

Professor of Computer Science and Data Science, New York University, New York, 2011 – Present;  
Executive Director, Moore Sloan Data Science Environment, New York University, NY,  
2015 – Present;  
Associate Professor, Computer Science, University of Utah, Salt Lake City, UT, 2008 – 2011.

#### Professional Interest:

Big Data Management and Exploration; Information Visualization; Data Discovery, Curation and Integration; Computational Reproducibility and Open Science; Provenance Management.

#### ACM Activities:

Program Committee Group Leader, ACM SIGMOD, 2017 – Present;  
Chair, Jim Gray Doctoral Dissertation Award Committee, ACM SIGMOD, 2016;  
Chair, ACM Grace Murray Hopper Award Committee, ACM, 2015;  
Member, ACM DL Committee: Project on Data, Software, Replicability, ACM, 2015 – 2016.

#### Membership and Offices in Related Organizations:

Board of Trustees, VLDB Endowment, 2012 – Present;  
Associate Editor, VLDB Journal, 2011 – Present;  
Program Chair, World Wide Web Conference (WWW), 2010.

#### Awards:

ACM Fellow, 2014;  
Google Faculty Award, 2013;  
NSF CAREER Award, 2008;  
Best paper award, IEEE Visualization Conference, 2007.

### **STATEMENT**

The technology developed by the database community has made the big data revolution possible, but when new major big data or data science developments are publicized, the data management component is minimized or omitted. If elected, I will work towards increasing the visibility of database research as a vital and ongoing component of data-intensive science and computing.

This may mean special tracks in conferences that illustrate these contributions through case studies, promoting collaborations with disciplines within and beyond computer science that engage in data-intensive research, and journalistic outreach to show how the technologies we develop have an ongoing impact on data science at scale.

Another direction we will pursue is to increase the adoption of transparency and reproducibility best-practices for database research. This has the potential to improve the quality of our research output and, by enabling others to build upon our results, magnify our impact and speed up new developments. The ACM SIGMOD conference has been a pioneer in creating technology for reproducibility. It has been a model for other ACM and non-ACM conferences. We hope to continue to lead this agenda in the future.

## Candidate for Vice-Chair

Yanlei Diao  
Ecole Polytechnique, Palaiseau, France

### **BIOGRAPHY**

#### Academic Background:

Ph.D., University of California, Berkeley, 2005 Computer Science.

#### Professional Experience:

Professor, Ecole Polytechnique, Palaiseau, France, 2015 – Present;  
Associate Professor, University of Massachusetts Amherst, MA, 2011 – 2015;  
Assistant Professor, University of Massachusetts Amherst, MA, 2005 – 2011.

#### Professional Interest:

Big Data Analytics; Data Management Systems; Data streams; Interactive Data Exploration;  
Uncertain Data Management.

#### ACM Activities:

Editor-in-Chief, ACM SIGMOD Record, 2014 – Present;  
Member, ACM SIGMOD Executive Committee, 2014 – Present;  
Chair, ACM SIGMOD Research Highlight Award, 2015 – Present;  
Associate Editor, ACM Transactions on Database Systems (TODS), 2014 – Present.

#### Membership and Offices in Related Organizations:

Member, ACM SIGMOD Software Systems Award Committee, 2014 – Present;  
Program Committee Co-Chair, ACM Symposium on Cloud Computing (SoCC), 2016;  
Program Committee Co-Chair, IEEE International Conference on Data Engineering (ICDE),  
2016 – 2017.

#### Awards Received:

ERC (European Research Council) Consolidator Award, 2016;  
CRA-W Borg Early Career Award, 2013;  
IBM Innovation Award on Scalable Data Analytics, 2010;  
ACM-SIGMOD Dissertation Award Honorable Mention, 2005.

### **STATEMENT**

I am honored to be nominated for the SIGMOD Vice-Chair position. I have been an active member of ACM and SIGMOD since 2008. Recently, I have taken a number of positions to contribute to the development of the SIGMOD community. As Editor-in-Chief of SIGMOD Record, I aimed to make the Record the "CACM" for the database community by creating a number of new initiatives. Most

notably, I created the SIGMOD Research Highlight Award and its related selection process for the SIGMOD community to showcase projects that exemplify core database research, as well as to recommend best articles to CACM. In addition, I am Associate Editor of ACM TODS, member of the SIGMOD and PVLDB Executive Committees, and member of the SIGMOD System Award Committee. I am currently PC Co-Chair of ICDE 2017 and was PC Co-Chair of ACM SoCC 2016. I also served on the organizing and program committees of SIGMOD, PVLDB, and CIDR, as well as other international conferences. I am excited about the opportunity to contribute further to the SIGMOD community, including building new initiatives to attract new members from developing countries and developing workshops and summer schools to promote data science broadly.

## Candidate for Vice-Chair

Ihab Francis Ilyas  
University of Waterloo, Ontario, Canada

### **BIOGRAPHY**

#### Academic Background:

Ph.D., Purdue University, 2004, Computer Science.

#### Professional Experience:

Professor, University of Waterloo, Ontario, Canada, 2004 – Present;  
Co-founder and Technical Advisor, Tamr Inc., Cambridge, MA, 2013 – Present;  
Principal Scientist, Head of the Data Analytics Centre, QCRI, Qatar, 2011 – 2013.

#### Professional Interest:

Data Management; Data Quality and Data Cleaning; Large Scale Data Integration;  
Uncertain and Probabilistic Databases; Information Retrieval.

#### ACM Activities:

Associate Editor, ACM Transactions on Database Systems, 2014 – Present;  
Tutorial co-Chair, ACM SIGMOD Conference 2018;  
Area/Track Leader, ACM SIGMOD Conference 2013, 2016;  
PC Member, ACM SIGMOD Conference 2014, 2017.

#### Membership and Offices in Related Organizations:

Member of the Board of Trustees, the VLDB Endowment, 2016 – Present;  
Associate Editor, Foundations and Trends in Databases, 2014 – Present;  
Associate Editor, The Proceedings of the VLDB Endowment, 2016.

#### Awards Received:

ACM Distinguished Scientist, ACM, 2014;  
Google Faculty Award, Google, 2014;  
Discovery Accelerator Award, NSERC Canada, 2014;  
Early Researcher Award, Government of Ontario, 2009.

### **STATEMENT**

SIGMOD is the premier data management professional society. The increasing importance of data and data-based solutions place important duties and challenges on our organization. Innovation in dealing with large and complex data sets initiates from multiple communities including AI, machine learning, and HCI, in addition to databases. This places significant challenges in our interactions with these communities and research areas. As we move from

traditional database management to the broader data management, we need to embrace these challenges and expand our scope, while, at the same time, ensuring that we maintain our recognized high standards in whatever we do. Continuous assessment of the scope of our activities is key in staying relevant and impactful.

Realizing the scope broadening should manifest itself in SIGMOD's various initiatives and relationships to its sister communities. There are many communities with pressing data management problems, and we should reach out and connect with them. If elected, I intend to work on managing the broadening of our scope to claim SIGMOD's central role in these activities. We can enhance our reach by partnering with sister societies, and my position on the VLDB Endowment Board will allow me to establish connections to further this agenda.



## Candidate for Secretary-Treasurer

Julia Stoyanovich  
Drexel University, Philadelphia, PA, USA

### **BIOGRAPHY**

#### Academic Background:

Ph.D., Columbia University, 2009, Computer Science.

#### Professional Experience:

Assistant Professor, Drexel University/College of Computing and Informatics, Philadelphia, PA, 2012 – Present;

Affiliated Faculty, Princeton University/Center for Information Technology Policy, Princeton, NJ, 2016 – Present;

Computing Innovations Fellow (Postdoc) and Visiting Scholar, University of Pennsylvania/Computer and Information Science, Philadelphia, PA, 2009 – 2012.

#### Professional Interest:

Data Management; Fairness, Accountability and Transparency in Data Analysis; Preference Analysis; Evolving Graphs.

#### ACM Activities:

ACM Code of Ethics 2018 Task Force member (nominated by SIGMOD), ACM, 2016 – Present;

ACM SIGMOD 2017 Workshops co-chair, 2016 – 2017;

ACM SIGMOD 2015, 2016 New Researcher Symposium co-chair, 2014 – 2016;

ACM-W Chapter faculty advisor, 2015 – 2016.

#### Membership and Offices in Related Organizations:

Workshop Co-Chair, WebDB 2015 (co-located with ACM SIGMOD), WebDB, 2014 – 2015;

Dagstuhl seminar co-organizer, "Data, Responsibly", 2016, Schloss Dagstuhl, Leibniz Zentrum fuer Informatik, 2015 – 2016;

Steering committee member, Columbia Graduate Student Government, Columbia University, 2004 – 2009.

#### Awards Received:

NSF CRII ("pre-CAREER"), 2015;

Michelman Award for Service to the CS Department, Columbia University, 2008.

### **STATEMENT**

I am proud to be a member of SIGMOD, a community that took a stand in defense of the principles of openness and inclusivity, moving its annual conference out of North Carolina. I am deeply

honored to be nominated to the SIGMOD Executive Committee. If elected, I will work to ensure that SIGMOD remains a smoothly-functioning professional organization, while upholding its commitment to the public good. We live at a time when the societal impact of computing is undeniable. Social responsibility is a major issue for the SIGMOD community for years to come. This issue has been at the center of my own research, mentoring and service activities. I am engaged in defining a technical data management agenda in fairness, accountability and transparency (Dagstuhl, "Data, Responsibly"). I oversaw the recognition of Drexel Women in Computing as an ACM-W Chapter. The majority of the students whom I have mentored have been women. In my non-professional life, I am leading the development of a dual-language elementary school program that is inclusive and accessible to all, as part of a community effort to desegregate New York's public schools.

I will be thrilled to serve our community if elected.

## Candidate for Secretary-Treasurer

Fatma Ozcan  
IBM Research, San Jose, CA, USA

### **BIOGRAPHY**

#### Academic Background:

Ph.D., University of Maryland, College Park, 2001, Computer Science.

#### Professional Experience:

Principal Research Staff Member, IBM Research, San Jose, CA, 2016 – Present;  
Research Staff Member, IBM Research, San Jose, CA, 2001 – 2016;  
Graduate Research Assistant, University of Maryland, College Park, MD, 1997 – 2001.

#### Professional Interest:

Data management; Infrastructure for large-scale data analysis; Ontology-based querying of knowledge bases and NLQ; Query optimization and query languages; Semi-structured data management.

#### ACM Activities:

General Chair, ACM SIGMOD Conference, 2016;  
Industrial PC Chair, ACM SIGMOD Conference, 2015;  
Proceedings Chair, ACM SIGMOD Conference, 2005.

#### Membership and Offices in Related Organizations:

Trustee, Board of Trustees, VLDB Endowment, 2016 – Present.

### **STATEMENT**

I am honored to have been asked to run for the SIGMOD Secretary-Treasurer position. I have been an active member of ACM SIGMOD since 2000. I was the general chair of SIGMOD 2016, and ran a record-breaking SIGMOD with a positive budget, despite the high costs of San Francisco. I am a manager in IBM Research, and chaired several program committees. These experiences have given me the skills and prepared me well for serving you as the secretary-treasurer.

SIGMOD has made significant contributions to the information management research community, and has been a beacon of progress for many decades. Relational databases and data mining were both pioneered in this community; today we are laying the foundations for data science. While encouraging such breakthroughs, SIGMOD needs to extend its reach and strategy to new challenges and more regions of the world. These requires a better understanding of diverse cultural, and professional contexts, and tight collaboration between academia and industry.

If elected, I will:

- Sponsor more activities for SIGMOD members, and increase student participation from all over the world (student travel scholarships, programming contests, etc.)
- Promote SIGMOD to attract and support new members, both from the academia and industry.