

**Name** Oliver Kennedy

**Education**

*PhD*, Cornell University, Ithaca, NY 2011

Department of Computer Science

Thesis: “*Watch out for... What?: Monitoring and Uncertainty in Scientific Computing*”

Advisor: Christoph Koch

*MS*, Cornell University, Ithaca, NY 2008

Department of Computer Science

*BS (with Honors)*, New York University, New York, NY 2005

Department of Computer Science

*BS*, Stevens Institute of Technology, Hoboken, NJ 2005

Department of Computer Engineering

**Academic Experience**

- Assistant Professor, Dept. of Comp. Sci. & Eng., SUNY Buffalo Sept. 2012 – present
- Postdoctoral Fellow, D.A.T.A. Lab, EPFL, Switzerland June 2011 – Aug. 2012

**Non-academic Experience** None

**Certifications or professional registrations** None

**Current membership in professional organizations** ACM, IEEE

**Honors and awards**

The pVLDB 2012 paper titled “DBToaster: Higher-order Delta Processing for Dynamic, Frequently Fresh Views” was accepted to the “Best of VLDB 2012” issue of the VLDB Journal.

Oliver received a UB CSE Outstanding Funding Award for attracting over \$3m of funding to the University at Buffalo in 2016.

The SIGMOD 2017 paper titled “Beta Probabilistic Databases: A Scalable Approach to Belief Updating and Parameter Learning”, authored by Oliver’s student Niccolo Meneghetti, was accepted for publication as a Best-Of-SIGMOD extended article in the ACM Transactions on Database Systems.

Oliver received the UB School of Engineering and Applied Sciences Early Career Outstanding Teacher of the Year Award in 2017

Oliver received the NSF’s CAREER award in 2018

Oliver received a UB Exceptional Scholar: Young Investigator Award in 2018

Oliver was recognized as a VLDB Distinguished Reviewer for his service on the PC of VLDB 2018

## Service activities

*Leadership:* pVLDB-Reproducibility (2018 – 2020), SoCC-Scholarship (2019)

*Program Committees:* VLDBJ (2013, 2017 – 2018), TKDE (2013 – 2014), TODS (2015, 2018), CSE (2015), VLDB-PhD (2013), VLDB-Demo (2016 – 2017), pVLDB (2017 – 2018, 2020), SIGMOD (2015 – 2017, 2019), ICDE (2019), PWECK (2016), HILDA (2016 – 2018), TOIT (2016), KAIS (2017), SoCC (2017)

*Reviewer:* VLDB-PhD (2013), VLDB-Demo (2016 – 2017), pVLDB (2017 – 2018, 2020), SIGMOD (2015 – 2017, 2019), ICDE (2019), PWECK (2016), HILDA (2016 – 2018), SoCC (2017)

*Outreach:* LIBERTY Partnerships (2013 – present), Coder Dojo Mentor (2013 – 2014), Science is Elementary Class Leader (2014 – 2016), CSExplore (2019)

*Departmental Service:* Graduate Admissions Committee (2012 – 2017), Graduate Advisory Board (2012 – present), Distinguished Speaker Committee (2017), Faculty Search Committee (2012 – 2014), Facilities Committee (2016), Colloquium Committee (2012 – 2014), Grievances Committee (2015 – 2016), Undergraduate Curriculum Development Subcommittee (2015 – 2016), Teaching Effectiveness Committee (2019)

## Recent publications and presentations

“*Your notebook is not crumbly enough, REPLace it*” — Michael Brachmann, William Spoth, Oliver Kennedy, Boris Glavic, Heiko Mueller, Sonia Castelo, Carlos Bautista, Juliana Freire (CIDR 2020)

“*Uncertainty Annotated Databases - A Lightweight Approach for Approximating Certain Answers*” — Su Feng, Aaron Huber, Boris Glavic, Oliver Kennedy (SIGMOD 2019)

“*Query Log Compression for Workload Analytics*” — Ting Xie, Varun Chandola, Oliver Kennedy (pVLDB 2019)

“*Learning From Query-Answers: A Scalable Approach to Belief Updating and Parameter Learning*” — Niccolò Meneghetti, Oliver Kennedy, Wolfgang Gatterbauer (TODS 2018)

“*Similarity Metrics for SQL Query Clustering*” — Gökhan Kul, Duc Thanh Luong, Ting Xie, Varun Chandola, Oliver Kennedy, Shambhu Upadhyaya (TKDE 2018)

“*Beta Probabilistic Databases: A Scalable Approach to Belief Updating and Parameter Learning*” — Niccolò Meneghetti, Oliver Kennedy, Wolfgang Gatterbauer (SIGMOD 2017)

“*Adaptive Schema Databases*” — William Spoth, Bahareh Sadat Arab, Eric S. Chan, Dieter Gawlick, Adel Ghoneimy, Boris Glavic, Beda Hammerschmidt, Oliver Kennedy, Seokki Lee, Zhen Hua Liu, Xing Niu, Ying Yang (CIDR 2017)

“*Lenses: An On-Demand Approach to ETL*” — Ying Yang, Niccolò Meneghetti, Ronny Fehling, Zhen Hua Liu, Dieter Gawlick, Oliver Kennedy (pVLDB 2015)

“*Just in Time Datastructures*” — Oliver Kennedy, Lukasz Ziarek (CIDR 2015)

“*DBToaster: Higher-order Delta Processing for Dynamic, Frequently Fresh Views*” — Christoph Koch, Yanif Ahmad, Oliver Kennedy, Milos Nolic, Andres Nötzli, Daniel Lupei, Amir Shaikhana (VLDBJ 2014)

“*DBToaster: Higher-order Delta Processing for Dynamic, Frequently Fresh Views*” — Yanif Ahmad, Oliver Kennedy, Christoph Koch, Milos Nolic (pVLDB 2012)

“*Jigsaw: Efficient optimization over uncertain enterprise data*” — Oliver Kennedy, Suman Nath (SIGMOD 2011)

“*DBToaster: Agile Views for a Dynamic Data Management System*” — Oliver Kennedy, Yanif Ahmad, Christoph Koch (CIDR 2011)

“*PIP: A Database System for Great and Small Expectations*” — Oliver Kennedy, Christoph Koch (ICDE 2010)

**Recent professional development activities** None