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Paul W. Olsen Jr.

Education

- 2010–2016 **Ph.D., Computer Science**, *University at Albany – State University of New York*, Albany, New York.
Thesis: Efficient Execution of Top- k Closeness Centrality Queries
- 2010–2014 **M.S., Computer Science**, *University at Albany – State University of New York*, Albany, New York, *GPA: 3.90/4.00*.
- 2007–2010 **B.A., Philosophy and Computer Science**, *University at Albany – State University of New York*, Albany, New York, *GPA: 3.75/4.00 (Summa Cum Laude)*.

Experience

- 2016–present **Assistant Professor**, *Department of Computer Science, The College of Saint Rose*, Albany, NY.
- 2013–2015 **Instructor** (Data Structures), *Department of Computer Science, University at Albany – State University of New York*, Albany, NY.
- 2013–2015 **Substitute Instructor** (Database Management), *Department of Computer Science, University at Albany – State University of New York*, Albany, NY.
- 2015 **Substitute Instructor** (Database Mining), *Department of Computer Science, University at Albany – State University of New York*, Albany, NY.
- 2014 **Instructor** (Data Structures), *Department of Mathematics and Computer Science, Skidmore College*, Saratoga Springs, NY.
- 2012 **Instructor** (Object Oriented Programming), *Department of Computer Science, University at Albany – State University of New York*, Albany, NY.
- 2012–2015 **Research Assistant**, *Department of Computer Science, University at Albany – State University of New York*, Albany, NY.
Funded by NSF CAREER Award IIS-1149372
- 2010–2014 **Teaching Assistant**, *Department of Computer Science, University at Albany – State University of New York*, Albany NY.
Data Structures (Lab Instructor, Project Design)
Programming Languages (Lab Instructor)
Discrete Mathematics (Weekly Review Section)
Introduction to Programming (Lab Instructor)
- 2009 **Undergraduate Teaching Assistant**, *Department of Computer Science, University at Albany – State University of New York*, Albany, NY.

Research Areas

- Graph Data Management
- Spatio-Temporal Data Management
- Social Network Analysis
- Design and Analysis of Algorithms
- Computational Logic

Awards and Honors

- Excellence in Teaching by a Graduate Student Award, *College of Computing and Information, University at Albany – State University of New York*, 2015.
- Best Poster Award, *IEEE International Conference on Data Engineering (ICDE)*, 2014
- Travel Award, *IEEE International Conference on Data Engineering (ICDE)*, 2014.
- Travel Award, *ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL GIS)*, 2013.
- Woody Bledsoe Student Travel Award, *International Conference on Automated Deduction (CADE)*, 2013.
- Dean's List (*for achieving a GPA higher than 3.60/4.00*), *University at Albany – State University of New York*, Fall 2008 - Spring 2010.

Publications

1. Jeong-Hyon Hwang, Alan Labouseur, **Paul Olsen Jr.**, “Text Stream Processing”, published in (***Encyclopedia of Database Systems***), Ling Liu, Tamer Ozsü (editors), Springer-Verlag, 2015.
2. Andrew Matusiewicz, Neil Murray, **Paul Olsen Jr.**, Erik Rosenthal, “Computing Prime Implicates by Pruning the Search Space and Accelerating Subsumption”, accepted for publication in *Journal of Logic and Computation (JLC)*, 2015.
3. Alan Labouseur, **Paul Olsen Jr.**, K. Park, and Jeong-Hyon Hwang, “A Demonstration of Query-Oriented Distribution and Replication Techniques for Dynamic Graph Data”, *23rd World Wide Web Conference (WWW 2014)*, Seoul, Korea, March 2014 (acceptance rate: 33.3%).
4. Alan Labouseur, Jeremy Birnbaum, **Paul Olsen Jr.**, Sean Spillane, Jayadevan Vijayan, W. Han, Jeong-Hyon Hwang, “The G* Graph Database: Efficiently Managing Large Distributed Dynamic Graphs”, accepted for publication in ***Distributed and Parallel Databases***.
5. K. Park, Jeremy Birnbaum, **Paul Olsen Jr.**, Y. Ma, Jayadevan Vijayan, S. S. Ravi, Jeong-Hyon Hwang, Jonathan Muckell, Catherine Lawson, “TrajMetrix: A Trajectory Compression Benchmarking Framework (Demo Paper)”, *21st ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL GIS 2013)*, 542–545, Orlando, FL, November 2013.

6. **Paul Olsen Jr.**, Alan Labouseur, Jeong-Hyon Hwang, "Efficient Top- k Closeness Centrality Search", *30th IEEE International Conference on Data Engineering (ICDE 2104)*, Chicago, IL, April 2014 (acceptance rate: 19.96%)
7. Alan Labouseur, **Paul Olsen Jr.**, Jeong-Hyon Hwang, "Scalable and Robust Management of Dynamic Graph Data", *First International Workshop on Big Dynamic Distributed Data (BD3)*, 43–48, Riva Del Garda, Italy, August 2013.
8. Jonathan Muckell, **Paul Olsen Jr.**, Jeong-Hyon Hwang, Catherine Lawson and S. S. Ravi, "A Comprehensive Evaluation of Algorithms for Compressing GPS Trajectory Data and a New Approach", *Geoinformatica*. (Online version published in July 2013.)
9. Jonathan Muckell, **Paul Olsen Jr.**, Jeong-Hyon Hwang, S.S. Ravi, Catherine Lawson, "A Framework for Efficient and Convenient Evaluation of Trajectory Compression Algorithms", *4th International Conference on Computing for Geospatial Research and Application (COM.Geo 2013)*, 24–31, San Jose, CA, 2013.
10. Sean Spillane, Jeremy Birnbaum, Daniel Bokser, Daniel Kemp, Alan Labouseur, **Paul Olsen Jr.**, Jayadevan Vijayan, Jeong-Hyon Hwang, "A Demonstration of the G* Graph Database System", *29th IEEE International Conference on Data Engineering (ICDE 2013)*, 1356–1359, Brisbane, Australia, April 2013.

Professional Activities

- External Reviewer, 23rd ACM International Conference on Information and Knowledge Management (CIKM), 2014.
- Program Committee, 2015 New Trends In Computer Science (NTCS), Department of Computer Science, University at Albany – State University of New York, January–April 2015.
- Volunteer, ACM SIGMOD 2014 Programming Contest, January–August 2014
- Program Committee Co-Chair, 2014 New Trends In Computer Science (NTCS), Department of Computer Science, University at Albany – State University of New York, January–April 2014.
- Program Committee, 2013 New Trends In Computer Science (NTCS), Department of Computer Science, University at Albany – State University of New York, January–April 2013.
- External Reviewer, 4th International Workshop on Data Center Performance (DCPerf), 2014.
- Student Volunteer, 21st International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL GIS), Orlando, Florida, November, 2013.
- Student Volunteer, 24th International Conference on Automated Deduction (CADE), Lake Placid, New York, June, 2013.