

Ruby Tahboub

CONTACT INFORMATION

Mailing address:
Department of Computer Science
Purdue University
305 N. University Street
West Lafayette, IN 47907 USA

Office: LWSN-2149 #20
E-mail: rtahboub@purdue.edu
WWW: <https://www.cs.purdue.edu/homes/rtahboub/>
LinkedIn: <http://www.linkedin.com>

EDUCATION

Purdue University, West Lafayette, IN, USA

Ph.D., Computer Science, Expected 2018

- Dissertation tentative title : *A Multi-stage Generative Programming Approach for Efficient Query Compilation*
- Advisor: Tiark Rompf

M.S., Computer Science, (non-thesis) August 2016

University of Jordan, Amman, Jordan

M.S., Computer Science, June 2006

- Thesis: *Collective Communication in Optical Transposed Interconnection System Mesh Using Extended Dominating Node Approach*
- Advisors: Sami Serhan and Basel Mahafza

Jordan University of Science and Technology, Irbid, Jordan

B.S., Computer Science, June 2005

RESEARCH INTERESTS

My research interests are in the broad area of database systems and applications, query compilation, scientific data management, spatial data management and Geographic Information Systems (GIS).

PROFESSIONAL EXPERIENCE

BayBridge Decision Technology, Annapolis, MD, USA

Software Development Intern

May 2011 to August 2011

- Develop new feature functionality for BBDT software applications. Troubleshooting and debugging defects in designated application code.

Intel, Co.(Software and Services Group (SSG)), Hillsboro, OR, USA

Graduate Intern Technical

May 2012 to August 2012

- Conducted Hadoop Performance Evaluation study on Nehalem-NP, Studied Hibench 2.0 benchmark and selected the most descriptive workloads that capture the performance of: CPU, memory usage and I/O.

TEACHING EXPERIENCE

Purdue University, West Lafayette, IN

Teaching Assistant

August 2010 May 2012

- CS 177 Programming with Multimedia Objects and CS 251 Data Structures and Algorithms
 - Head-TA: organize grading schemes with the TAs, manage in-class operations.

Jordan University of Science and Technology, Irbid, Jordan

Lecturer

October 2008 June 2010

- Lecturer for courses: Computer Skills, Programming in C++, Programming in Visual Basic, and Data Structures.

REFEREED JOURNAL PUBLICATIONS

- [1] Mingjie Tang, **Ruby Y. Tahboub**, Walid G. Aref, Mikhail J. Atallah, Qutaibah M. Malluhi, Mourad Ouzzani and Yasin N. Silva. *Similarity Group-by Operators for Multi-dimensional Relational Data*, IEEE TKDE 2016.
- [2] Basel Y. Mahafzah, **Ruby Y. Tahboub** and Omar Y. Tahboub, *Efficient Broadcast and Global Combine in All-Port Wormhole-Routed OTIS-Mesh Interconnection Networks*, Cluster Computing: The Journal of Networks, Software Tools and Applications. Vol 13, Issue 1, Mar 2010.

CONFERENCE PUBLICATIONS

- [1] **Ruby Y. Tahboub**, Tiark Rompf. On Supporting Compilation in Spatial Query Engines. ACM SIGSPATIAL GIS 2016
- [2] Mingjie Tang, **Ruby Y. Tahboub**, Walid G. Aref, Mikhail J. Atallah, Qutaibah M. Malluhi, Mourad Ouzzani and Yasin N. Silva. *Similarity Group-by Operators for Multi-dimensional Relational Data*. IEEE ICDE Extended Abstract 2016.
- [3] **Ruby Y. Tahboub**, Jaewoo Shin, Aya Abdelsalam, Jalal Aref, Walid G. Aref and Sunil Prabhakar. *LIMO: Learning Programming using Interactive Map Activities*. ACM SIGSPATIAL GIS 2015.
- [4] Walid G. Aref, Sunil Prabhakar, Jaewoo Shin, **Ruby Y. Tahboub**, Aya Abdelsalam and Jalal Aref. *On Map-Centric Programming Environments*. ACM SIGSPATIAL GIS 2015.
- [5] Basel A. Mahafza, Sami I. Serhan, **Ruby Y. Tahboub**, *All-Reduce Communication Operation in OTIS-Mesh Interconnection Network*. SEPADS 2015.

PROFESSIONAL SERVICE

Web Master

- International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL). 2016-2017.

PROFESSIONAL MEMBERSHIPS

Member of ACM, IEEE, Women in Science, and Purdue Graduate Student Board.

AWARDS

- Excellence in teaching 2016
Purdue University, College of Science: Boyce Graduate Teacher Award.
- ACM SIGSPATIAL: Best Demo award, 2015
Title: LIMO: Learning Programming using Interactive Map Activities..

REFERENCES AVAILABLE TO CONTACT

Upon request.