

# Jonathan M. Cazalas

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## EDUCATION

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**Ph.D., Computer Science** **Orlando, FL USA**  
*University of Central Florida* *April 2012*

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**M.S., Computer Science** **Orlando, FL USA**  
*University of Central Florida* *May 2009*

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**B.S., Computer Science** **Orlando, FL USA**  
*University of Central Florida* *December 2006*

## ACADEMIC EXPERIENCE

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**Assistant Professor** **Lakeland, FL USA**  
*Department of Computer Science, Florida Southern College* *Aug 2018 to Present*

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**Visiting Associate Professor** **Winter Park, FL USA**  
*Department of Math & Computer Science, Rollins College* *Aug 2017 to May 2018*

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**Associate Professor** **Jeddah, KSA**  
*Department of Computer Science, King Abdulaziz University* *Aug 2016 to Jul 2017*

- \*\*Top ranked instructor in department, having received College Teaching award three times over five years
  - Coordinator of multiple courses, including Programming I, Data Structures, and Discrete Structures.
  - Supervising PhD students, graduate research projects, and undergraduate capstone projects
  - Coach of ACM ICPC Programming Team.
  - Member of ABET accreditation team
    - Attained accreditation in 2013
  - Member of Graduate Program committee and Curriculum Development committee.
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**Assistant Professor** **Jeddah, KSA**  
*Department of Computer Science, King Abdulaziz University* *May 2012 to Aug 2016*

- Designed and implemented new course curricula, according to the ACM 2013 Curricula Recommendations, for Programming I, Data Structures, and Discrete Structures.
- Supervised PhD students, graduate research projects, and undergraduate capstone projects
- Coach of ACM ICPC Programming Team.

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**Lecturer**

*Department of Computer Science, University of Central Florida*

**Orlando, FL USA**

*Aug 2010 to May 2012*

- Lead Lecturer for C and Data Structures.
- \*\*Top-ranked instructor in CS department according to official Student Perception of Instruction Surveys.

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**INDUSTRY EXPERIENCE**

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**Managing Director**

*Premo-Promos LLC*

**Orlando, FL USA**

*Jan 2007 to 2012*

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**Director of Sales and Business Development**

*Premo-Promos LLC*

**Orlando, FL USA**

*Jan 2005 to 2007*

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**Manager of Marketing & Promotion**

*Premo-Promos LLC*

**Orlando, FL USA**

*Jan 2001 to 2005*

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**TEACHING**

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**Teaching Interests:**

- Introductory problem solving (programming courses), data structures, competitive programming, and algorithm design and analysis

**Courses Taught:**

- Problem Solving I (Programming I)
- Problem Solving II (Programming II)
- Object-Oriented Programming
- Data Structures
- Algorithm Design & Analysis
- Competitive Programming (Advanced Problem Solving)
- Discrete Mathematics
- Database Management Systems
- Advanced Database Systems & Technologies
- Computer Networks
- Computer Organization & Architecture
- Internet Application Programming
- Business Applications of Computing

### Teaching Recognitions at KAU:

- Excellence in Teaching (2013)
- Excellence in Teaching (2015)
- Excellence in Teaching & Research (2017)

### Teaching Recognitions at UCF:

- Excellence in Teaching (2012)
- Results of official UCF student surveys, from 2010, 2011, and 2012, can be found at <http://www.cazalas.com/pages/teaching.php>

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## PHD SUPERVISION

- Raed Al-Dhubhani (Post-Candidacy)
- Abdullah Al-belaihy (Post-Candidacy)
- Adnan Abi Sen (Post-Qualifier)

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## PUBLICATIONS

- A. Albelaihy, **J. Cazalas**, V. Thayanathan (2018). "A Survey: The Current Trends of Privacy Techniques for Protecting the Location Privacy of Users in LBS," *Journal of Theoretical and Applied Information Technology*, vol. 96, no. 15.
- A. Albelaihy, **J. Cazalas**, V. Thayanathan (2018). "BLOT: A Novel Phase Privacy Preserving Framework for Location-Based Services," *International Journal of Advanced Computer Science and Applications*, vol.9.
- R. Al-Dhubhani and **J. Cazalas** (2017). "An Adaptive Geo-indistinguishability Mechanism for Continuous LBS Queries," *Journal of Wireless Networks (Springer)*.
- A. Albelaihy, **J. Cazalas**, V. Thayanathan (2018). "Privacy-Preserving Queries for LBS: Independent Secured Hash Function," *Journal of Theoretical and Applied Information Technology*, vol. 96, no. 11.
- R. Al-Dhubhani and **J. Cazalas** (2017). "Correlation Analysis for Geo-indistinguishability Based Continuous LBS Queries," *Proceedings of 2017 IEEE International Conference on Anti-Cyber Crimes (ICACC)*.
- A. Albelaihy and **J. Cazalas** (2017). "Privacy Preserving Queries for LBS: Hash Function Secured," *Proceedings of 2017 IEEE International Conference on Anti-Cyber Crimes (ICACC)*.
- A. Albelaihy and **J. Cazalas** (2017). "A Survey of Privacy Techniques Employed in Protecting the Location Privacy of Users in LBSs," *Proceedings of 2017 IEEE International Conference on Anti-Cyber Crimes (ICACC)*.
- A. Hadi and **J. Cazalas** (2015). "Improved Recommender for Location Privacy Preferences," *Journal of Computer and Information Science*, 8(4), 64-76.
- M. Aqib and **J. Cazalas** (2015). "Trusted Base Stations-Based Privacy Preserving Technique in Location-Based Services," *Journal of Computer and Information Science*, 8(4), 93-103.

- R. Al-Dhubhani and **J. Cazalas** (2015). “Improving the Performance of kNN Queries with Location Privacy,” *International Journal of Computer and Information Technology*, 4(4), 645-652.
- F. Muhdher and **J. Cazalas** (2015). “Stop and Move Semantic Trajectory Clustering with Existing Spatio-Temporal Data Model,” *International Journal of Computer and Information Technology*, 4(4), 675-683.
- M. J. Ikram and **J. Cazalas** (2015). “Efficient Collaborative Technique using Intrusion Detection System for Preserving Privacy in Location-based Services,” *International Journal of Networks and Applications*, 2(5), 222-231.
- A. Albelaihy and **J. Cazalas** (2015). “A Fine-Grained Spatial Cloaking with Query Probability Levels for Privacy in LBS,” *International Journal of Networks and Applications*, 2(5), 212-221.
- M. Almasre and **J. Cazalas** (2015). “Presetting with QoS Architecture to Enhance LBS,” *International Journal of Computer and Information Technology*, 4(3), 590-598.
- R. Alhebshi and **J. Cazalas** (2014). “Improving the Similarity for Privacy in Location Based Service,” *International Journal of Computer and Information Technology*, 3(6), 1245-1253.
- S. Al-Hejaili and **J. Cazalas** (2014). “GB-KNN-WI: Group Based K-NN Queries Processing in MANETs with Wireless Integration,” *International Journal of Computer and Information Technology*, 3(6), 1254-1263.
- J. Cazalas** and R. Guha (2012). “Performance Modeling of Spatio-Temporal Algorithms over GEDS Framework,” *Journal of Grid and High Performance Computing*, 4(3), 63-84.
- J. Cazalas** and R. Guha (2012). “GEDS: GPU Execution of Spatio-Temporal Queries over Spatio-Temporal Data Streams,” *Journal of Embedded Computing*, 4(3), 117-130.
- J. Cazalas** and R. Guha (2011). “Leveraging computation sharing and parallel processing in location-dependent query processing,” *Journal of Supercomputing*, 61(1), 215-234.
- J. Cazalas** and R. Guha (2010). “GEDS: GPU Execution of Continuous Queries on Spatio-Temporal Data Streams,” *IEEE/IFIP International Conference on Embedded and Ubiquitous Computing*, 112-119.  
\*Best Paper Award\*
- J. Cazalas** and K. Hua (2009). “Leveraging Computation Sharing and Parallel Processing in Location-Based Services,” *International Conference on Computational Science and Engineering*, 221-228.

## UNIVERSITY SERVICE

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- Computer Science Graduate Committee Member, 2014-
- Computer Science Curriculum Development Team Member, 2014-
- Computer Science Programming Coordinator, 2012-
- Coach for ACM ICPC Programming Team, 2013-
- ABET Accreditation Team Member, 2012-
- Coordinator for FCIT Tutoring Lab, 2013-
- Organizing Committee Member for NC3, 2015-
- Coordinator for University Programming Contest, 2013-

- Coordinator for National Programming Contest, 2015

## **PROFESSIONAL SERVICE**

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### **Journal & Conference Reviewer**

- IJNCA, 2015-
- Spring Journal of Supercomputing, 2011-
- MDM, 2010-
- ICDE, 2009-
- EUC, 2009-

## **AWARDS & RECOGNITION**

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- Excellence in Teaching (2012), College of Engineering and Computer Science (UCF)
- Excellence in Teaching (2013), Department of Computer Science (KAU)
- Excellence in Teaching (2015), Department of Computer Science (KAU)
- Excellence in Teaching & Research (2017), Department of Computer Science (KAU)