

Vladimir Grupchev

Education

- May 2015 **PhD in Computer Science and Engineering**
Dissertation Title: Improvements on Scientific System Analysis
University of South Florida, Tampa, FL
- May 2007 **Master of Arts in Mathematics**
University of South Florida, Tampa, FL
- May 2005 **Bachelor of Science in Informatics (Applied Math & Computer Science)**
University of St. Cyril & Methodius, Skopje, Macedonia

Professional Experience

- Aug 2017 - **Instructor I** for the department of Mathematics
University of South Florida, Tampa, FL
- Aug 2016 - **Adjunct Professor** for the department of Mathematics
University of Tampa, Tampa, FL
- Aug 2016 - May 2017 **Full Time Temp Professor** for the department of Mathematics
Hillsborough Community College (DM), Tampa, FL
- Nov 2015 - Aug 2016 **Visiting Professor** for the department of Computer Science
International VISION University, Gostivar, Macedonia
- Jan 2016 - June 2016 **Visiting Professor** for the department of Computer Science
University of Information Science and Technology, Ohrid, Macedonia
- Jan 2015 - May 2015 **Adjunct Professor** for the department of Mathematics
Hillsborough Community College (DM & Brandon), Tampa, FL
- Jan 2015 - May 2015 **Adjunct Professor** for the department of Mathematics
University of Tampa, Tampa, FL
- Aug 2008 - May 2015 **Teaching Assistant**
University of South Florida - Computer Science and Engineering Department
- Aug 2007 - May 2008 **Adjunct Professor** for the Department of Mathematics
University of South Florida, Tampa FL
- Aug 2007 - May 2008 **Adjunct Professor** for the Department of Mathematics
Hillsborough Community College (DM & Plant City), Tampa FL
- Jan 2007 - May 2008 **Math Tutor**
University of South Florida - Naval ROTC, U.S. Army and Marines
WizAnt - Math Tutoring Center
- Aug 2005 - May 2007 **Teaching Assistant**
University of South Florida - Department of Mathematics

Classroom Experience

Courses Taught (*some of them multiple times/sections at USF, UT and HCC*)

- ◁ Intermediate Algebra (MAT 1033)
- ◁ Finite Mathematics (MGF 1106)
- ◁ Math for Liberal Arts I & II (MGF 1106/7)
- ◁ College Algebra (MAC 1105)
- ◁ Trigonometry (MAC 1114)
- ◁ Precalculus Algebra & Trig. (MAC 1147)
- ◁ Business Calculus (MAC 2233)
- ◁ Analysis of Algorithms (COT 4400)

Courses Assisted (*USF: Dept. of Mathematics & Dept. of Computer Science*)

- ◁ College Algebra (MAC 1105)
- ◁ Combin.72 Tm0109.8 491.15 225.08 84.525 0 (
- ◁ Theory of Algorithms (COT6405)

- ◁ Grupcev, V., Yuan, Y., Tu, Y., Huang, J., Chen, S., Pandit, S., Weng, M. (2012). Approximate Algorithms for Computing Spatial Distance Histograms with Accuracy Guarantees. *IEEE Transactions on Knowledge and Data Engineering*, 25(9), 1982-1996. doi:10.1109/TKDE.2012.149
- ◁ Kumar, A., Grupcev, V., Yuan, Y., Tu, Y., Shen, G. (2012). Distance Histogram Computation Based on Spatiotemporal Uniformity in Scientific Data. *Proceedings of the 15th International Conference on Extending Database Technology*, 288-299. doi:10.1145/2247596.2247631
- ◁ Tu, Y., Chen, S., Pandit, S., Kumar, A., Grupcev, V. (2012). Efficient SDH computation in molecular simulations data. *Proceedings of the ACM Conference on Bioinformatics, Computational Biology and Biomedicine*, 527-529. doi:10.1145/2382936.2383010