



Yesenia Velasco / Computer Science

980-229-2155

velasco990@gmail.com

322 Junction Rd #38D Durham, NC 27703

Summary

Currently seeking an opportunity that will increase my knowledge and experience of computer science obtained at the graduate university level.

Technical Skills

- Proficient in C/C++ and experience with Java, Matlab, SVN and OpenGL
- Networks
- Vehicular Ad-Hoc Networks
- Cloud Computing
- Technical Writing
- Languages (Spanish-Fluent in Speaking and Writing)

Education

Duke University, Durham, NC – M.S in Computer Science – 2016-Present

North Carolina Central University - B.S in Computer Science and Mathematics—2012-2016

Employment Experience

Math and Computer Science Tutor, North Carolina Central University, 2014-2016

- Tutor students individually or in small groups in various math and computer science subjects.

Rams Intern, Oak Ridge National Laboratory, Oak Ridge, TN, 2014 summer

- Helped to work with finite memory automata reconstruction from data with an application in predicting cancer cell tumor growth using the General Systems Problem Solver.

CAT Vehicle REU Intern, University of Arizona, Tucson, AZ, 2015 summer

- Implemented a hybrid model predictive controller for path planning and obstacle avoidance of an autonomous vehicle.

Intern, Idaho National Laboratory, Idaho Falls, ID, 2016 summer

- Worked on simulating the cold cap physics of a nuclear waste melter using Star-CCM+ modeling software, C, and Matlab.

Publications

- Donghyun Kim, **Yesenia Velasco**, Wei Wang, Rasheed Hussain, and R.N. Uma, "On Hybrid RSU Installation Strategy for Cost-Efficient VANET Deployment," accepted by *IEEE Transactions on Vehicular Technology (TVT)*.
- Donghyun Kim, **Yesenia Velasco**, Zishen Yang, Wei Wang, Rasheed Hussain, and R.N. Uma, "Cost Effective Mobile and Static Road Side Unit Deployment for Vehicular Adhoc Networks," *Proceedings of International Workshop on Computing, Networking and Communications (CNC)* in conjunction with *International Conference on Computing, Networking and Communications (ICNC 2016)*, February 15-18, 2016, Kauai, Hawaii, USA.

Presentations

- Cost Effective Mobile Static Road Side Unit Deployment for Vehicular Adhoc Networks," *International Workshop on Computing, Networking Communications (CNC)*, February 15-18, 2016, Kauai, Hawaii, USA.
- Cost Effective Mobile Static Road Side Unit Deployment for Vehicular Adhoc Networks, 2015 Graduate Undergraduate Research Symposium (GURS), North Carolina Central University, April 11, 2015.

Awards

Recipient of Marjorie Lee Brown Award for Excellence in Mathematical Sciences, North Carolina Central University, 2016

Honor by the department of Mathematics awarded to a graduating student who has shown excellence in the mathematical sciences.

Magna Cum Laude, North Carolina Central University, 2016

Earned by graduating students with a cumulative GPA of 3.5-3.79

Graduate and Undergraduate Research Symposium (GURS), North Carolina Central University, 2015

Won first place presentation award in the Undergraduate, Natural Science category along with \$50

Grace Hopper Scholarship 2013

Funded my transportation, meals, stay, and ticket to the Grace Hopper Conference.

Chancellors' School Transfer Scholarship. North Carolina Central University, 2012

Supplied a book voucher to pay for my school books for two years.