Grant Wilde

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EDUCATION

Texas A&M University – College Station, TX GPA – 3.600 on 4.0 scale

PhD Student

Master's Thesis – Path Plan Performance Evaluation of the Challenge 1: A Small UnmannedSurface Vehicle for Radiation Detection and MappingAugust 2016

Angelo State University – San Angelo, TX GPA – 3.877 on 4.0 scale B.S. Double Major and Computer Science May 2013

Master of Science, Computer Science

Expected Graduation: August 2019

June 2011

Studied abroad in Scotland, England, France

HONORS AND AWARDS

- Nominated as Finalist for Best Paper at SSRR 2015
- Texas A&M Department of Computer Science and Engineering Teaching Assistant Excellence Award for the 2014-2015 School Year
- Angelo State University's College of Arts and Sciences Distinguished Student for the 2012-2013 School Year
- Dean's List; 8 semesters
- Alpha Chi Member; National Honor Society
- Pi Mu Epsilon Member; National Mathematics Honor Society
- Who's Who Among American College Students; Nationally Recognized Student Award
- The Math and CS Department's nomination for the Angelo State Presidential Award
- Carr Academic Scholarship Recipient
- Special Academic Math Department Scholarship Recipient

ACADEMIC POSITIONS

TA for CSCE 420 - TAMU Computer Science and EngineeringSpring 2019- PresentAssisted Dr. Walter Daugherity in teaching his under graduate class of
Artificial Intelligence. Responsibilities included grading assignments, proctoring
exams, and office hours.

CRASAR Lab Manager – Center for Robot Assisted Search and Rescue Fall 2014-Present Responsibilities included status and maintenance of CRASAR robots, gear, and vehicles, and working with Bruce Veals to insure robot inventory.

TA for CSCE 635 – TAMU Computer Science and EngineeringFall 2014, Spring 2017Assisted Dr. Robin Murphy in teaching her graduate class of AI Robotics.Responsibilities included creating and grading projects, proctoring exams, and
leading group case studies.

Research Assistant – <i>Texas A&M Engineering Experiment Station</i> Responsibilities included assisting with research grant proposa writing, conducting research pertaining to unmanned marine vehicles and the milestones stated in each grant received, purchasing required materials and hardware needed for the pro- working with first responders in the development of the techno- needed to assist them in their day to day operations with robots deploying to natural disasters to assist responders in the respon- recovery phase. Disasters deployed to are the Memorial Day F of 2016 and Hurricane Harvey.	Summer 2015-Fall 2018 d oject, ologies s, and nse and loods
TA for ENGR 491 – <i>TAMU Dwight Look College of Engineering</i> Assisted Dr. Robin Murphy, Dr. Dylan Shell, and Dr. Craig M with one of Texas A&M's AggiE Challenge projects. Respons purchasing equipment, creating tutorials, and mentoring resear	<i>Fall 2014-Spring 2015</i> arianno ible for ch groups.
TA for CSCE 206 – <i>TAMU Computer Science and Engineering</i> Assisted Dr. Joseph Hurley teach non Computer Science major Responsible for weekly labs, creating assignments, creating an tests, and calculating final semester grades.	<i>Fall 2013-Spring 2014</i> rs C++. d grading
Peer Teacher for CAM 1351 – <i>ASU Math and CS Department</i> Assisted Dr. Dionne Bailey teach a class in which students lear to use MATLAB, LaTeX, and LyX.	<i>Spring 2012-Spring 2013</i> rned
Computer Science Tutor – <i>ASU Math and CS Department</i> Tutored students in Java, C++, Visual Basic, and Assembly.	Fall 2010-Spring 2013
PROFESSIONAL WORK EXPERIENCE	
Farm Hand – Wilde Farms	2009 – Present
Student Programmer – Angelo State Information Technology	June 2010 – June 2013
Sales Associate – <i>Athletic Supply</i>	January 2010 – June 2010

WORK RELATED PROGRAMMING PROJECTS

- Wrote a self-service application that allows RAs and building managers at ASU to record fire alarm or smoke detector incidents on campus
- Contributed code to Angelo State's study abroad application process
- Contributed code to Angelo State's SMART Trac; software used to track tutoring on campus
- Wrote a self-service application that allows potential transfer students to ASU to see credit transfer equivalency
- Converted IT reports written in WebFOCUS to IBM Cognos 8 Business Intelligence
- Assisted Angelo State University IT DBA Jeff Reils in finding duplicate records and assisted in the transfer/deletion process

SKILLS

Programming Languages: C++, Java, SQL, PL SQL, HTML, PHP, Ruby, Python, Javascript

Applications: Toad for Oracle, WebFOCUS, IBM Cognos 8 Business Intelligence, MS Visual Studio, Eclipse

Operating Systems: Unix, Linux, and Windows

UNIVERSITY ACTIVITIES

Assisted Dr. Robin Murphy as a mentor for Aggies Invent	Fall 2014, Spring 2016
"Zoo Keeper" of the Center for Robot Assisted Search and Rescue's Interactive Robot Petting; An exhibit allowing visitors the chance to interact with real-life rescue robots. Events have been held at SXSW, AUVSI, and locally at TAMU.	2015 - Present
MAA (Mathematical Association of America) Member	Fall 2009 – Spring 2013
Intramurals Flag Football Basketball Soccer Volleyball 	Fall 2009 – Spring 2013
Helped ASU CS Department run the programming portion of the Texas UIL Academics Regional 4A Meet	May 2010
Assisted ASU Math and CS Department with their Science Day exhibit	February 2011
PUBLICATIONS	

- G. A. Wilde, R. R. Murphy, D. A. Shell, and C. M. Marianno. A man-packable unmanned surface vehicle for radiation localization and forensics. In 2015 IEEE International Symposium on Safety, Security, and Rescue Robotics (SSRR), pages 1-6, Oct 2015.
- R. Murphy, J. Dufek, T. Sarmiento, G. Wilde, X. Xiao, J. Braun, L. Mullen, R. Smith, S. Allred, J. Adams, A. Wright and J. Gingrich "Two case studies and gaps analysis of flood assessment for emergency management with small unmanned aerial systems," 2016 IEEE International Symposium on Safety, Security, and Rescue Robotics (SSRR), Lausanne, 2016, pp. 54-61.
- G. A. Wilde and R. R. Murphy. User Interface for Unmanned Surface Vehicles Used to Rescue Drowning Victims. Submitted to 2018 IEEE International Symposium on Safety, Security, and Rescue Robotics (SSRR), Aug 2018.
- R. T. Schofield, G. A. Wilde and R. R. Murphy. Potential Field Implementation for Move-to-Victim Behavior for a Lifeguard Assistant Unmanned Surface Vehicle. Submitted to 2018 IEEE International Symposium on Safety, Security, and Rescue Robotics (SSRR), Aug 2018.

SUBMITTED JOURNAL ARTICLE

 Title: A Robotics-Oriented Taxonomy of How Ethologists Characterize the Traversability of Animal Environments
 Authors: Grant Wilde and Robin Murphy
 Journal: Robotics and Autonomous Systems
 Status: Accepted pending minor revisions

PRESENTATIONS

"Robotics in the Real World", Invited Lecture, Wall High School, Wall, TX, February 20, 2015

"The Mathematics Behind Global Positioning Systems", Open Department Seminar, Angelo State University, San Angelo, TX, 2012

POSTERS

"Path Plan Performance Evaluation of the Challenge 1: A Small Unmanned Surface Vehicle for Radiation Detection and Mapping" Presented at the International Symposium on Safety, Security, and Rescue Robotics (SSRR) in Lausanne, Switzerland, Fall 2016

"Path Plan Performance Evaluation of the Challenge 1: A Small Unmanned Surface Vehicle for Radiation Detection and Mapping" Presented at the IAP Poster Competition, Spring 2017

"Comparison of Spiral and Boustrophedon Paths for a Nearly Holonomic Unmanned Surface Vehicle" Presented at the TAMU Student Research Week Poster Competition, Spring 2017

CRASAR DEPLOYMENTS

Hurricane Harvey	August 2017
Deployed to Fort Bend County for three days to serve as Data Manager	
for Unmanned Aerial Vehicle (UAV) flights of the flooded region	
STUDENTS MENTORED	
Rebecca T. Schofield – Undergraduate at Texas A&M University	Spring 2018
Honor's Thesis: Potential Fields Navigation of Lifeguard Assistant Robot	
for Mass Marine Casualty Response	
Bryan Collegiate High School Robotics Team – High School Robotics	Fall 2017
Volunteered over 20 man hours of time towards the design and development	
of BCHS's UIL State Robotics Competition robot	
Piya Malhan – High School Student at Michael E. Debakey	Summer 2017
Worked/Shadowed in the CRASAR lab; Currently enrolled at the	
University of Houston studying Computer Science.	

RELATED COURSEWORK

- CSCE 606 Software Engineering; Grade: A
- CSCE 608 Database Systems; Grade: A
- CSCE 614 Comp Architecture; Grade A
- CSCE 625 Artificial Intelligence; Grade B
- CSCE 627 Theory of Computability; Grade: A
- CSCE 629 Analysis of Algorithms; Grade: B
- CSCE 635 AI Robotics; Grade: A
- CSCE 656 Computers & New Media; Grade A
- ISEN 630 Human Operator in a Complex System; Grade: B
- STAT 630 Overview of Math Statistics; Grade: B
- CS 1361 Computer Science I; Grade: A
- CS 1362 Computer Science II; Grade: A
- CS 2305 Data Structures and Algorithms; Grade: A
- CS 3304 Comp Org & Programming; Grade: A
- CS 3311 Data Base Mgt; Grade: A

AREAS OF INTEREST

- Artificial Intelligence
- Human-Robot Interaction
- Remote Sensing
- Robotics
- Unmanned Marine Vehicles
- Path Planning

- CSCE 3352 Theory of Algorithms; Grade A
- CS 4301 Alg Lang & Compilers; Grade: B
- CS 4302 Operating Systems; Grade: A
- CS 4318 Artificial Intelligence; Grade A
- CS 4381 Web Database Design; Grade: A
- MATH 2305 Discrete Mathematics I; Grade: A
- MATH 2513 Calculus I; Grade: B
- MATH 3301 Linear Algebra; Grade: A
- MATH 3305 Discrete Mathematics II; Grand A
- MATH 3315 Vector Calculus; Grade: A
- MATH 3514 Calculus II; Grade: B
- MATH 3335 Differential Equations; Grade: A
- MATH 4351 Topology; Grade: A
- MATH 4361 Complex Variables; Grade: A
- PHYS 3444 Digital Electronics; Grade: A