

CURRICULUM VITAE

Nicholas Paul Taliceo

CONTACT INFORMATION

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EDUCATION

M.S. (Candidate) in Geospatial Information Sciences; The University of Texas at Dallas.

Anticipated Graduation: May 2018

B.A. in Mathematics; Westfield State University, May 2016.

Minor in Earth Systems Science
Certificate in Geographic Information Systems

Commonwealth Honors Program

Overall GPA: 3.934 Major GPA: 4.000
Graduated with Latin Honors *Summa Cum Laude*

Senior Honors Thesis: *Intercardinal Adjacencies: A New Landscape Metric*

High School Diploma; Agawam High School, Agawam Public Schools, June 2012.

Overall GPA: 4.26 (on a 4.5 scale)

AREAS OF INTEREST

Mathematics

Applied mathematics, operations research and modeling, numerical analysis, optimization, graph theory, combinatorics, linear algebra.

Geographic Information Systems

Spatial analysis, spatial statistics, mathematical modeling, GIS data analysis, computer programming for GIS, network analysis, web and mobile GIS.

Earth Systems Science

Physical geology, landscape ecology, oceanography.

HONORS AND AWARDS

Gamma Theta Upsilon International Geographical Honor Society (April 2017 – Present)
Graduated as a Commonwealth Honors Scholar (May 2016)
Westfield State University's Honors Program
Pi Mu Epsilon Mathematics Honor Society (2015 – Present)
Phi Kappa Phi Honor Society (2015 – Present)
Westfield State University Dean's List from Fall 2012 – Present
Lambda Sigma Honor Society (2014 – Present)

RELATED EXPERIENCE

THE TRAVELERS INDEMNITY CO., Hartford, CT

Analytics Intern, June 2017 – August 2017

- Worked on individual and collaborative data analytics and geospatial projects in the personal insurance, research and development department.
- Topics of projects include performing network analyses on transportation (telematics) data as well as analyzing third part, ZIP Code-level demographics data.

THE UNIVERSITY OF TEXAS AT DALLAS, Richardson, TX

Graduate Teaching Assistant, August 2016 – Present

- Assist students struggling to understand course material and provide GIS support for in-class applications in the Department of Geospatial Information Sciences.

WESTFIELD STATE UNIVERSITY, Westfield, MA

Peer Tutor, June 2016 – August 2016

- Tutored summer mathematics courses (elementary statistics, mathematical applications, math workshop) in the Urban Education Summer Bridge Program.

Peer Tutor, January 2015 – May 2016

- Assist students struggling to understand course material in mathematics, GIS, and earth science in individual and group tutoring sessions.

Research Assistant, June 2015 – August 2015

- Conducted mathematical research under the 2015 Research Experience for Undergraduates (REU) and the WSU Mathematics Department.
- Applied mathematics research aimed to determine a new landscape metric for the landscape ecology discipline which will be used in GIS software.
- The research conducted is the topic of my WSU Honors Thesis.

Teaching Assistant, Urban Education Summer Bridge Program, June 2015 – August 2015

- Provided instructional support in MATH 099: Math Workshop for incoming, underperforming students.
- Offered one-on-one instruction during class for students needing additional assistance.

- Developed and implemented lessons on polynomials, and quadratic and linear equations.
- Created a formative assessment to evaluate student learning.

FEATURE ARTICLES

“Nic’s Story”

Discovering the Art of Mathematics, Blog, 08 November 2015.

GRANTS, SCHOLARSHIPS, AND FELLOWSHIPS

Awarded a \$2500 fellowship from the Pioneer Natural Resources Corporation, 08/2016.

Awarded a \$500 grant from the Westfield State University’s S.M.A.R.T.S program for student travel to the 2016 Joint Mathematics Meetings in Seattle, WA, 12/2015.

Awarded a \$200 grant from the Mathematical Association of America for student travel to present a poster at the 2016 Joint Mathematics Meetings in Seattle, WA, 11/2015.

Awarded a \$3000 grant from Westfield State University for my research project under the Research Experience for Undergraduates, 2015.

Awarded a \$500 grant from Westfield State University for a summer mathematics tutor, 2015.

Awarded a \$300 grant from Westfield State University’s S.M.A.R.T.S to support travel and attendance of the 2015 Joint Mathematics Meetings in San Antonio, TX, 01/2015.

Awarded the John and Abigail Adams Scholarship, a tuition waiver by the Commonwealth of Massachusetts, 2012 – 2016.

Awarded a \$700 grant under the “Faolin M. Pierce Scholarship”, 06/2012.

Awarded a \$1000 grant under the “Agawam Chapter UNICO Scholarship”, 06/2012

TALKS AND PRESENTATIONS

American Association of Geographers Annual Meeting; Boston, MA, 03/17; Speaker: “Uncertainty Propagated Through the Jacobian Term of an Auto-Normal Model: Establishing a Conceptual Basis”.

GIS Day 2016; The University of Texas at Dallas, Richardson, TX, 11/16; Graduate Student Poster Contributor: “Batch DEM Conversion and Re-Projection: Automation using Python”.

GIS Day 2016; The University of Texas at Dallas, Richardson, TX, 11/16; Graduate Student Poster Contributor: “Estimating the overall ablation rate of the Mt. Rainier glacier system: an initial analysis”.

Celebration of Undergraduate Research and Creative Work Symposium; Westfield State University, Westfield, MA, 05/16; Student Poster Contributor: “Intercardinal Adjacencies: A New Landscape Metric.”

Celebration of Undergraduate Research and Creative Work Symposium; Westfield State University, Westfield, MA, 05/16; Student Poster Contributor: “Scripting the Intercardinal Metric Using Python.”

Northeast Arc Users Group Spring Spatial Technologies Conference; Amherst, MA, 05/16; Speaker: “Scripting the Intercardinal Metric Using Python.”

American Mathematical Society and Mathematical Association of America Joint Meetings; Seattle, WA, 01/16; Undergraduate Student Poster Contributor: “Intercardinal Adjacencies: A New Landscape Metric.”

Senior Honors Presentation; Westfield, MA, 12/15; Speaker: “Intercardinal Adjacencies: A New

Landscape Metric.”

Research Experience for Undergraduates Summer Talk; Westfield, MA, 07/15;

Speaker: “Intercardinal Adjacencies: A New Landscape Metric.”

Hudson River Undergraduate Mathematics Conference; Schenectady, NY, 04/15;

Speaker: “Intercardinal Adjacencies: A New Landscape Metric.”

PROFESSIONAL CONFERENCES

American Association of Geographers Annual Meeting; Boston, MA, 03/17; Speaker: “Uncertainty Propagated Through the Jacobian Term of an Auto-Normal Model: Establishing a Conceptual Basis.”

Southwest Division of the Association of American Geographers Annual Meeting; The University of North Texas, Denton, TX, 10/16.

Northeast Arc Users Group Spring Spatial Technologies Conference; Amherst, MA, 05/16;

Speaker: “Scripting the Intercardinal Metric Using Python.”

American Mathematical Society and Mathematical Association of America Joint Meetings; Seattle, WA, 01/16; Undergraduate Student Poster Contributor: “Intercardinal Adjacencies: A New Landscape Metric.”

Hudson River Undergraduate Mathematics Conference; Schenectady, NY, 04/15;

Speaker: “Intercardinal Adjacencies: A New Landscape Metric.”

American Mathematical Society and Mathematical Association of America Joint Meetings; San Antonio, TX, 1/16.

TECHNICAL SKILLS

Skill rankings (in parentheses) from least to most knowledgeable are: Novice, Intermediate, Proficient, Advanced.

Operating Systems

- Windows OS (since Windows 95)
- Mac OS X
- Google Android (Mobile)
- Apple iOS (Mobile)

Software Packages

- Esri’s ArcGIS Desktop (up to 10.4.1 – Advanced)
- Esri’s ArcGIS Online (Advanced)
- Esri’s mobile apps, including: ArcGIS, Collector, Explorer, Survey123 (Proficient)
- Knowledge of Microsoft Office, including: MS Word, MS PowerPoint, MS Publisher, MS OneNote, MS Outlook, and MS Excel (Advanced)
- Knowledge of GeoGebra, a dynamic mathematics software (Advanced)
- Knowledge of SketchUp (up to SketchUp 2017 – Proficient)
- Knowledge of FRAGSTATS, a computer software package designed to compute landscape metrics for categorical map patterns (Proficient)
- Knowledge of Adobe Photoshop, Illustrator, and Dreamweaver (Novice)
- Knowledge of the GNU Image Manipulation Program, GIMP (Novice)

Web-based Tools

- Knowledge of the Google Drive Suite, including, but not limited to: Docs, Sheets, Slides, Maps, Forms, Sites, and Google Earth (Advanced)
- Knowledge of WordPress and other software used for web design (Proficient)
- Knowledge of OpenStreetMap (Novice)

Programming Languages

- Knowledge of the Python programming language (Advanced)
- Knowledge of the R statistical programming language (Advanced)
- Knowledge of LaTeX, the leading scientific document markup language (Advanced)
- Knowledge of HTML/CSS (Intermediate)
- Knowledge of SAS Enterprise Guide; focus on PROC SQL and data steps (Novice)
- Knowledge of the Wolfram Mathematica programming language (Novice)
- Knowledge of the Java programming language (Novice)
- Knowledge of the Ruby programming language (Novice)

Statistical Skills

- Graphical techniques for data analysis
- Probability
- Discrete and continuous probability distributions
- Random Variables
- Statistical Inference
- Covariance/Correlation Analysis
- Linear/Non-Linear Programming Problems
- Linear Regression

COLLEGIATE ACTIVITIES

Secretary of the UTD GIS Student Organization (GISSO)	08/2017 – Present
Member of the UTD GIS Student Organization (GISSO)	Fall 2016 – Present
Mathematics Tutor, WSU Urban Education, Banacos Academic Center	06/2016 – 07/2016
Completed WSU Senior Honors Thesis	Spring 2016
Participated in 2015 Research Experience for Undergraduates (Advisor: Dr. Julian F. Fleron)	Spring 2015 – Fall 2015
Mathematics, GIS and Earth Systems Science Tutor, Banacos Academic Center, Westfield State University	01/2015 – Spring 2016
Research Assistant, Mathematics Department, Westfield State University	06/2015 – 07/2015
Mathematics Tutor, WSU Urban Education, Banacos Academic Center	06/2015 – 07/2015
Teaching Assistant, WSU Urban Education Summer Bridge Program	06/2015 – 07/2015
Member of the WSU Math Club	Fall 2012 – Spring 2016

MEMBERSHIP ORGANIZATIONS

Member of the Gamma Theta Upsilon Honor Society	04/2017 – Present
Member of the New England Chapter of the Urban & Regional Information Systems Association (NEURISA)	01/2017 – Present
Member of the Association of American Geographers	10/2016 – Present

Member of the Pi Mu Epsilon Honor Society	04/2016 – Present
Member of the Phi Kappa Phi Honor Society	03/2015 – Present
Member of the Lambda Sigma Honor Society	11/2014 – Present

EMPLOYMENT

Tavern Restaurant, Westfield, MA, June 2010 – August 2016

Line Cook

- Prepare food and kitchen as well as cook, serve during operating hours.

The Ranch Golf Club, Southwick, MA, May 2011 – August 2011

Grounds Keeper

- Performed general golf course maintenance including lawn care and operated machinery.