

James Alan Nelson

Curriculum Vitae – January 2024

**112 Graham Building
Department of Geography, Environment,
and Sustainability
University of North Carolina at Greensboro**

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Continuing Education/Certification

2015	Geography	GISP	GIS Certification Institute
2011	Microsoft	MCITP, MCTS	Microsoft Certification

Education

1999	San Diego State University	MCP	City Planning
1988	University of North Carolina at Charlotte	BS	Geography (Earth Science minor)

Employment History

2016-present Senior Academic Professional: Director, Department of Geography, Environment, and Sustainability, UNCG

2013-2016 Academic Professional: Director, Department of Geography, UNCG

1999-2013 Lecturer/Lab Director, Department of Geography, UNCG

1996-1999 Operating Systems Analyst, Department of Geography, San Diego State University

1998 Windows NT Administrator/PC Technical Support, School of Public Administration and Urban Studies, San Diego State University

1998 Teaching Assistant, Department of Geography, San Diego State University

1997-1999 Planning Intern, City of Poway, Poway, California

1992-1995 PC Technical Support/Novell Administrator, Richland County Public Library, Columbia S.C.

1992 Lab Assistant, Computer Programming Technology Department, Greenville Technical College, Greenville S. C.

Primary Responsibilities

Course Support

Support a multitude of courses and programs within the department, the College of Arts and Sciences, and across the campus.

Hardware Support

Manage eleven departmental servers which provide storage space and license management
Maintain a 21 seat and a 27 seat computer laboratory within the department
Maintain a 20 seat virtual laboratory accessible through the UNCG mycloud environment
Maintain a 10 seat high-end remote sensing laboratory

Software Support – (selective listing)

7-ZIP 9.20 (x64 edition)	ArcGIS 10.8 for Desktop
ArcGIS Diagrammer	Geographically Weighted Regression Release 3.0

Software Support – (continued)

Google Earth	HEC-RAS 4.10
IDL 8.3 and ENVI 5.5	MICRODEM Freeware GIS
Python 2.7 pywin32-219	Python 3.1.2
QGIS Brighton 2.6.1	Saguaro ArcGIS Tools
TerraSurveyor v.3.0.24.1	Transcad 6.0 (Demo)
ArcGIS Pro 3.1	ArcGIS Online
ArcGIS Hub Premium	ArcGIS Business Analyst

Geospatial Technology Support across the UNCG Campus

Biology	Public Health Education
History	Anthropology
Facilities Management	Economics
Archaeology	Classical Studies
Center for Housing and Community Studies	Office of Technology Transfer
Center for Youth, Family & Community Partnerships	Center for New North Carolinians
Research and Public, Private Sector Partnerships	Student Support Services
Information Technology and Management	Office of the Provost
UNCG Police Department	Community and Therapeutic Recreation
Office of Institutional Research	School of Education
Campus Access Management	Housing and Residence Life
Institutional Research	Sociology

Curriculum Development

Work with faculty on appropriate GIS curriculum based on current technology in the field

Department Liaison

ITS defined roles including Department Technology Coordinator (DTC) and Department Technology Support (DTS); member of the PC Advisory Board

Budgetary Consulting

Advise department head and faculty on selection and capabilities of various hardware platforms; recommend and advise on upgrades need in the geospatial laboratories

Graphic Design/Cartographic Consulting

Graduate School Research Expo	Political Science Expo
Interior Architecture design open house	Educational Research Methodology
University support liaison for conference poster plotting	

Professional Training

2022	UNCG	ITS Information Security Training
2021	ESRI	Authoring ArcGIS Dashboards
2021	ESRI	Introduction to ArcGIS Dashboards
2021	ESRI	Dashboard and Arcade
2021	UNCG	ITS Information Security Awareness Training
2020	ESRI	Do-It-Yourself GeoApps
2020	ESRI	Creating and Sharing GIS Content Using ArcGIS Online

Professional Training (continued)

2020	ESRI	Python for Everyone
2020	ESRI	Meet the New ArcGIS StoryMaps
2020	ESRI	The Location Advantage
2020	ESRI	Sharing Analysis Results Using ArcGIS Business Analyst
2020	ESRI	Site Analysis Using ArcGIS Business Analyst
2020	ESRI	Analyze Markets Using ArcGIS Business Analyst
2020	ESRI	Creating Data Layers for an ArcGIS Business Analyst Project
2020	ESRI	Introduction to ArcGIS Business Analyst
2020	UNCG	ITS Information Security Awareness Training
2019	UNCG	ITS Information Security Awareness Training
2018	ESRI	Cartography
2018	UNCG	ITS Information Security Awareness Training
2017	UNCG	ITS Information Security Awareness Training
2016	UNCG	ITS Information Security Awareness Training
2015	UNCG	Windows System Center Configuration Manager
2013	UNCG	BlueCat Training (as it relates to UNCG, presented by John Williams, ITS)
2012	UNCG	BlueCat onsite training (by BlueCat representative)
2012	Bluecat	Online IPAM (IP Address Management) Essentials 3.7
2012	ESRI	ArcGIS Sever Enterprise Configuration and Tuning for SQL Server
2012	ESRI	Creating and Publishing Maps with ArcGIS
2012	ESRI	Creating Effective Web Applications using ArcGIS Server (10.0)
2011	ESRI	Introduction to ArcGIS Server
2011	ESRI	Building Geodatabases
2011	ESRI	Performing Analysis with ArcGIS Desktop
2011	ESRI	Creating and Analyzing Surfaces Using ArcGIS Spatial Analyst
2011	ESRI	Working with 3D GIS Using ArcGIS
2011	ESRI	ArcGIS Desktop III: GIS Workflows and Analysis
2011	ESRI	ArcGIS Desktop II: Tools and Functionality
2011	ESRI	Using ArcCatalog: Tips and Tricks
2011	ESRI	Learning ArcGIS Desktop (for ArcGIS 10)
2011	UNCG	I.T.S. Group Policy Training Seminar
2011	Microsoft	Microsoft Certified IT Professional (MCITP)
2011	Microsoft	Microsoft Certified Technology Specialist (MCTS)
2010	G.S.S.I	UtilityScan Training Course
2010	UNCG	DTS/DTC Training
2010	Microsoft	Windows Server 2008, Configuring DNS for Active Directory
2010	Microsoft	Windows Server 2008, Configuring the Active Directory Infrastructure
2006	UNCG	I.T.S. Technical Certification for Campus Technical Staff: PC Machine Setup, Imaging, Registering Machines
2006	UNCG	I.T.S. Technical Certification for Campus Technical Staff: Printers
2006	UNCG	I.T.S. Technical Certification for Campus Technical Staff: Wireless/Lotus Desktop Installation and Troubleshooting
2006	UNCG	I.T.S. Technical Certification for Campus Technical Staff: Macs – Setup, Imaging, Printers, Wireless
2006	UNCG	I.T.S. Technical Certification for Campus Technical Staff: Assessment
2004	Symantec	Ghost 8.0 Desktop Deployment, Backup and Asset Management

Courses Taught

San Diego State University
Geography 484, Introduction to GIS (Teaching Assistant)
Geography 584, Intermediate GIS (Teaching Assistant)
Geography 683, Advanced GIS (Teaching Assistant)

The University of North Carolina at Greensboro
Geography 103, Introduction to Earth Science
Geography 121, Introduction to Geographic Information Science
Geography 301, Urban Geography: Global Patterns
Geography 313, Natural Resource Regions of North America

Publications

- 2020 *Geographic Information Science: Introductory Concepts and Applications*. First edition. Dubuque, Iowa: Kendall Hunt. Co-authors: Elisabeth Nelson, Rick Bunch.
- 2018 *Exploring Geospatial Technology*. Third edition. Dubuque, Iowa: Kendall Hunt. Co-authors: Elisabeth Nelson, Rick Bunch.
- 2014 *Exploring Geospatial Technology*. Second edition. Dubuque, Iowa: Kendall Hunt. Co-author: Elisabeth Nelson.
- 2013 *Exploring Geospatial Technology*. First edition. Dubuque, Iowa: Kendall Hunt. Co-author: Elisabeth Nelson.

Research/Contracts

- 2021 Airports Cooperative Research Program Project 03-58: Measuring and Understanding the Relationship Between Air Service and Regional Economic Development (Award No. A20-0190-001). Lead Principal Investigator: Keith Debbage. Sponsor: InterVISTAS Consulting, Inc.

Awards

- 1988 ACSM Map Design Competition, Outstanding Achievement for *Handicapped Accessibility Map For The University of North Carolina at Charlotte*

Service Activities

- 2022 – present Chair, Professional Track Faculty ad hoc committee
- 2022 – present Dissertation Committee member, Sami Alwulayi
- 2021 – present Dissertation Committee member, Nicole Hawks
- 2021 – 2026 Adjunct Member, UNCG Graduate Faculty
- 2015 – present UNCG ITS PC Advisory Board member
- 2014 – 2015 Member, Departmental *Bylaws Committee*
- 2010 – present Department Technology Coordinator/Department Technology Support
- 2010 – 2012 Member, Departmental *Space Committee*
- 2000 – present SEDAAG Conference Display Coordinator
- 2000 UNCG Recruitment Phone-a-thon