

## JULIETTE GUTIERREZ, PhD

### Education

PhD – Information Systems & Technology, Claremont Graduate University, 2014

MBA – Emphasis in Information Management, Cal Poly Pomona, 1994

BS – Information and Computer Science, University of California, Irvine, 1984



### Professional Experience

As SCS's National GIS Coordinator, Dr. Gutierrez is responsible for geographic information system (GIS) environments installation and management, which includes Portal for ArcGIS, ArcGIS Server, ArcGIS for Desktop, ArcSDE, ArcGIS Online, Field Maps, Survey123, and many layers, feature classes, map services, and images. She is tasked with the planning, organization, upgrade, and migration of GIS environments. Additional responsibilities include addressing daily issues and requests for GIS analysis, maps, and data; supporting project and proposal GIS work; writing Python scripts/Jupyter notebooks for automation; and writing SQL for reports and Excel/CSV data exports from the SQL Server. Prior to joining SCS in 2021, she managed the GIS/Database for the Orange County (California) Water District, using Oracle database applications.

Dr. Gutierrez has over three decades of information technology experience, including substantial experience with GIS, database management, data warehousing, business intelligence, decision support, project management, systems analysis and design, and software development and testing. She also has considerable experience designing and developing data warehouses and data marts, and running relational databases on-premise and in the Amazon Web Services (AWS) cloud. Dr. Gutierrez has worked for several large organizations, including Yahoo Search Marketing, Washington Mutual Financial Services, Warner Music Group, Esri, and others as a developer and product engineer.

### Technical Skills

- **Cloud:** Amazon Web, AWS CLI
- **Databases:** Oracle, PostgreSQL, SQL Server
- **ETL/Data Warehouse:** Informatica, Constellar, ERWin, Business Objects, Actuate
- **GIS / Spatial:** Esri ArcGIS, Oracle Spatial, PostGIS, OGC, Geocortex
- **Internet:** REST, JSON, HTML, XML
- **Languages:** SQL, Python, Perl, Java
- **Microsoft:** IIS, MS Word, MS Excel, MS Visio, MS Project, Visual Studio
- **Open Source:** PostgreSQL, Apache Tomcat, JMeter, Eclipse, JUnit, Weka
- **Operating Systems:** Unix/Linux, Windows
- **Project Management:** TFS, Jira

### Publications and Presentations

Gutierrez, Juliette, *Am I Safe?: A Personal Safety Multicriteria Spatial Decision Support System*, PhD dissertation, Claremont Graduate University, 2014, 106 pages (3642762).

J. Gutierrez and G. Leroy, "Using Decision Trees to Predict Crime Reporting," *Advanced Principles for Improving Database Design, Systems Modeling, and Software Development*, Eds. J. Erickson and K. Siau, IGI Global, 132-145, November 2008 (ISBN-13: 9781605661728).

J. Gutierrez and G. Leroy, "Predicting Crime Reporting with Decision Trees and the National Crime Victimization Survey," Americas Conference on Information Systems (AMCIS), Keystone, Colorado, August 9-12, 2007.