

George W. Heine, III

Objective Senior Technical Consultant in Geographic Information Systems. Skills in software development, enterprise management, public speaking and teaching.

Experience BUREAU OF LAND MANAGEMENT Lakewood, CO
1984–Present

Current duties: Represent BLM’s community of 3000 GIS specialists to management and to vendors. Negotiate and manage contracts with COTS software vendors. Supervise national geospatial help desk staff. Explore and evaluate new technologies. Provide statistical analysis support to National Training Center and to field scientists.

Previously spent 10+ years in GIS software development; specialist in map projections and statistical interpolation algorithms.

PEACE CORPS Central African Republic
1982–1984

Mathematics teacher, secondary/college level. All instruction conducted in French. Wrote and graded national examinations, helped design national mathematics curriculum. Trained new teachers. Managed school building repair project.

Education PH.D., Applied Mathematics, University of Colorado, 1994.

M.S., Applied Mathematics, University of Colorado, 1989.

A.A., Data Processing, Seattle Community College, 1982.
Offered a teaching position on graduation.

B.A., Mathematics, Reed College, 1971.

Publications “Leonard Euler as Mapmaker,” in preparation.

“War in the Best of All Possible Worlds: Leibniz on the Role of Mathematics in War, Peace, and Social Issues,” in *Proceedings of the International Conference on History and Pedagogy of Mathematics*, Uppsala, Sweden, 2004.

“Mercator—Who Was He and Why Should We Care?,” *Proceedings of the 2004 ESRI User Conference*.

“The Value of Mathematics—A Medieval Islamic View,” in *Using History to Teach Mathematics: An International Perspective* Mathematical Association of America, 2000. (Trilingual presentation in Braga, Portugal, 1996.)

“Optimization Techniques for the Determination of Polygon Boundaries,” in *Proceedings of the ASPRS/ACSM/RTI/Auto-Carto 13 Annual Meeting*, April 1997.

“Probabilistic Search with Overrides,” (jointly with B.L. Fox), *Annals of Applied Probability*, January 1996.

“Stable Estimators for Self-Adjusting Simulations,” (jointly with B.L. Fox), in *Monte Carlo Methods in Scientific Computing*, Springer-Verlag, 1995.

“Finding the Average Map: Methods of Error Resolution in polygon overlay,” Technical Report, University of Colorado at Denver, 1990.

“A Controlled Study of Some Two-Dimensional Interpolation Algorithms,” *COGS Computer Contributions*, August 1986.

Miscellaneous LANGUAGES

French (level 1–2)

Spanish (level 1)

German, Russian, Portuguese, Sango, Arabic (level 0.5)

PROFESSIONAL MEMBERSHIPS

Mathematical Association of America

American Statistical Association

Geospatial Information Technology Association

OTHER INTERESTS

Dancing—Tango, Ballroom, Lindy

Yoga—Iyengar, Ashtanga, Anusara

History of Mathematics and Mathematical Cartography

Languages and Linguistics

Foreign travel