

Thomas Hervey

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EDUCATION

UC SANTA BARBARA

M.A./PH.D. GEOGRAPHY

Fall 2015 - Present | Santa Barbara, CA

UMBC

B.S. INFORMATION SYSTEMS

- Web Development certificate

B.A. GEOGRAPHY

- GIScience certificate

2010 - 2014 | Baltimore, MD

GPA: 3.83 / 4.0

COURSEWORK (SELECTED)

GRADUATE

Algorithmic Data Visualization

Analytical Methods in Geography

Environmental Perception & Cognition

Data and Knowledge Bases

Deep Learning for NLP

UNDERGRADUATE

Advanced Web Development

GUI Systems with Java

Computer Science I, II

Intro Database Application Development

Structured Systems Analysis and Design

Network Design and Management

Applied Statistics for Economics

Human-Environment GIS

ONLINE

Inferential & Descriptive Statistics

Introduction to Machine Learning

Data wrangling with MongoDB

Data Analysis with R

Web Development & Design

Android Development

SKILLS

PROGRAMMING

Experience:

Javascript • Python • Java • R • PL/SQL

Familiar:

Node • Ruby • PHP • Matlab • C# • SPARQL

SOFTWARE

Experience:

Adobe CS • Arc/QGIS • Wordpress • ERDAS

PhotoScan • eCognition

Familiar:

React/Redux • Flask • MongoDB • GDAL

D3 • QGIS • Protégé

EXPERIENCE

OPEN STREET MAP JAVASCRIPT DEVELOPMENT

Summer 2018 | Google Summer of Code

- Created UI layers for notes and quality assurance tools
- Researched note usage and how they can improve VGI collaboration

ESRI SOFTWARE DEVELOPMENT INTERN

Summer 2017 | Rosslyn, VA

- Implemented classification and rendering for KoopJS ETL library
- Curated gazetteer geometry for OpenData geography search facet

APPLIED WEATHER TECHNOLOGY TESTING INTERN

Summer 2013 | Sunnyvale, CA

- Tested user interfaces, participated in code reviews, and conducted performance analysis of ship routing software during pre-release

JMT TECHNOLOGY GROUP GIS TECHNICIAN INTERN

Summer, Winter 2012 | Sparks, MD

- Parsed and geocoded addresses, evaluated routing interpolations, and improved data dictionaries and metadata for a Baltimore City centerline enhancement project
- Automated metadata enrichment for CAD-GIS utility network data

RESEARCH

SPATIAL@UCSB CORECONCEPTS PROJECT

Fall 2015 - Present | UCSB Campus, CA

- Develop a spatial 'language' for foundational geo-spatial computing

NSF REU FIELD RESEARCH | GEOSPATIAL AND MAPPING

June 2013 | CSU Long Beach, CA | Ka'a'awa, HI

- Gathered and processed communal GIS field data, and investigated subsurface hydrology using satellite imagery and ocean sample data

UNDERGRADUATE RESEARCH OPENKINECT DEVELOPMENT

Spring 2013 | UMBC Campus, MD

- Constructed a software interface to control DMX lighting via gestures recognized by the Microsoft Xbox Kinect

CUERE RESEARCH CENTER VISUALIZING EARLY BALTIMORE

March - May 2012 | UMBC Campus, MD

- Georeferenced, digitized, analyzed and constructed DEMs of historic Baltimore topography

TEACHING & AWARDS

2015-18	T.A.	GIS; Human Geography; Geography of U.S.
2018	UCSB	SAP + ESRI Spatial Hackathon Finalist
2014	GTU	Geography Honors Society
2014	UMBC	GIScience; Web Development Outstanding Senior
2013	NSF	Research Experience for Undergraduates Scholar
2013	UMBC	Undergraduate Research Award and URCAD presenter

PUBLICATIONS

JOURNAL ARTICLES

Hervey, T., & Kuhn, W. (2018). Using Provenance to Disambiguate Locational References in Social Network Posts. International Journal of Geographical Information Science, (Special Issue: Crowdsourced Geospatial Data Quality: Challenges and Future Directions), (accepted). <http://doi.org/10.1080/13658816.2018.1459627>

PAPERS IN CONFERENCE PROCEEDINGS

Allen, C. **Hervey, T.**, Lafia, S., Phillips, D. W., Vahedi, B., and Kuhn, W. (2016). Exploring the notion of spatial lenses. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) (Vol. 9927 LNCS, pp. 259–274).

EXTENDED ABSTRACTS AND PAPERS IN WORKSHOP PROCEEDINGS

Hervey, T., Kuhn, W., Deriving Locational Reference through Implicit Information Retrieval. In International Conference on Geographic Information Science (2016).

Golubovic, N., Krintz C., Wolski R., Lafia S., **Hervey T.** and Kuhn W. Extracting Spatial Information from Social Media in Support of Agricultural Management Decisions. In International Conference on Advances in Geographic Information Systems (2016).

POSTERS

(2nd place award) **Thomas Hervey**, Daniel W. Phillips, and Werner Kuhn. "Categorizing Cognitive Scales of Spatial Information." International Conference on Spatial Information Theory. Springer, Cham, 2017.

Thomas Crimmel, **Thomas Hervey**, Sara Lafia, Christina Last, Behzad Vahedi, Jingyi Xaio, Werner Kuhn. "Applying a Geographic Prism to Scientific Experiments." Spatial Local @ UCSB, 2018.

WORKSHOPS

Co-organizer: CoSSI 2017 – COSIT 2017 workshop on Cognitive Scales of Spatial Information

Co-organizer: TGTA 2018 – AGILE 2018 workshop on Teaching Geospatial Technologies to All

RESEARCH APPOINTMENTS

Visiting Scholarship - Fall 2017 - University of Zurich, Irchel - Supervisor: Dr. Ross Purves

LINKS

Github://[thomas-hervey](#) LinkedIn://[thomas-hervey](#) Twitter://[@ThomasAHervey](#)