



JAMES NAPOLI – SPATIAL WILDFIRE ANALYST

NARRATIVE

Jim has experience in wildfire research, development, and application, with over fifteen years of experience as a GIS-Database programmer/analyst. His wildfire and spatial analysis expertise are grounded in previous positions with Landfire and the National Park Service. Past research work includes leveraging spatial analysis techniques to develop data processing tools for landscape- to national-scale projects; including the development of surface and canopy fuels modeling techniques and coordinating the development of multi-agency fire geospatial data layers.

ACCOMPLISHMENTS

- Co-developer of Pyrologix's innovative Fuelscape Mapping approach
- Developed fuel model processing tools for Calibration Workshops
- International Association of Wildland Fire Conference presenter/author for conference symposium: Keeping up with Changing Landscapes in Wildland Fuels, 2010
- USDA Forest Service, Fire Lab, Significant Contribution Toward Completing of Western Milestone, Completion of Mapping Western United States Wildland Fire Fuels, 2006
- Northern Illinois University Richard E. Dahlberg Award, 2001
- Recipient of Pennsylvania State University E. Miller Award, 2000
- Recipient of National Geographic / American Association of Cartographers Cartography Award, 2000

WORK HISTORY

Spatial Wildfire Analyst, Pyrologix LLC, Missoula, Montana.
2019 to present

Senior Scientist, SGT (Landfire Program), Missoula, MT.
2009 – 2019

GIS Specialist/Physical Scientist, USFS Rocky Mountain Research Station, Missoula, MT.
2006 – 2009

GIS Biologist, ESCO Associates, Boulder, CO.
2006 – 2006

Ecological Monitoring Database Facilitator, Research Corporation for University of Hawaii, Maui, HI.
2005 – 2005

Cartographic Technician, NPS Yellowstone National Park, Mammoth Hot Springs, WY.
2002 – 2005

Cartographic Assistant, Northern Illinois University Cartography Lab, DeKalb, IL.
2001 – 2002

EDUCATION

M.B.A. 2016	Data Analytics	University of Montana
M.Sc. 2004	Geographic Information Systems	Northern Illinois University
B.S. 2000	Geographic Information Systems & Cartography	Pennsylvania State University

SELECTED ORAL PRESENTATIONS

Fuelscape Calibration Workshops (Presenter/Facilitator)

March 2023. Virtual SouthWrap Fuelscape. Pyrologix

October 2022. UWRAP Final Fuelscape presentation

October 2019. Denver, Colorado. Pyrologix

2008 – 2009 Landfire Fuel Calibration workshops in numerous locations throughout the US

HVRA Risk Assessment Workshops (Presenter/Facilitator)

August 2020. Virtual HVRA Response Function Presentation, Pyrologix

October 2020. Virtual HVRA Relative Importance Presentation, Pyrologix

SELECTED PUBLICATIONS/REPORTS

James Napoli, Julie Gilbertson-Day, and Joe H. Scott. A fuelscape for All-lands in Utah.

http://pyrologix.com/reports/Utah_FuelscapeReport.pdf. 2022.

James Napoli et al. A pilot Wildfire Risk Assessment for California.

http://pyrologix.com/reports/CAL_WildfireRiskPilot_Report.pdf. 2022.

James Napoli et al. Wildfire Risk for All Lands in Colorado.

http://pyrologix.com/reports/COAL_WildfireRiskReport.pdf. 2022.

James Napoli et al. a Fuelscape for Colorado All-Lands. http://pyrologix.com/reports/COAL_FuelscapeReport.pdf. 2022.

James Napoli et al. Wildfire Risk in Eastern Region National Forests.

http://pyrologix.com/reports/ERRA_R9_WildfireRiskReport.pdf. 2021.

James Napoli et al. Chugach All-Lands Wildfire Risk Assessment: Methods and Results.

http://pyrologix.com/reports/ARRA_WildfireRiskReport.pdf. 2021.

Knight; Chang. A Simplified basin model for simulating runoff: The Strum River Basin. Professional Geographer. Vol, 53(4): 533-545. 2001 (map publication)