

# marek jakubowski

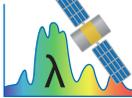
geo data science • remote sensing • design

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## EDUCATION



**University of California, Berkeley, 12/2012**  
*Environmental Science, Policy, and Management, PhD*  
 Focus in lidar remote sensing and GIS



**Rochester Institute of Technology, 5/2006**  
*Imaging Science, BS*  
 Focus in hyperspectral remote sensing

## QUALIFICATIONS



Illustrator  
 Photoshop  
 InDesign  
 Dreamweaver



ArcGIS  
 ENVI/IDL  
 Lidar tools  
 TillMill



MATLAB  
 WEKA data mining  
 Mathematica  
 Excel



Python  
 JAVA  
 MATLAB  
 IDL  
 shell scripting

Javascript/D3  
 HTML  
 CSS  
 Polish (fluent)



## EXPERIENCE: from science to design



**Associate member of the technical staff**  
*The Aerospace Corporation, 22 months*  
 algorithm development (IDL)  
 software development (IDL)  
 sensor calibration



**Geospatial IT specialist / cartographer**  
*Deer Creek Resources, 20 months*  
 map design and production (ArcGIS)  
 mobile natural disaster deployment  
 IT maintenance (servers, networking, plotters)  
 continuous 24-hour turnaround work output

### DATA ANALYSIS



**Fire-detection satellite design consultant**  
*UC Berkeley, FUEGO project, 16 months*  
 programming (MATLAB, Python, scripting)  
 big data analysis (ArcGIS, ENVI, MATLAB)  
 data visualization (Illustrator)



**Principal researcher**  
*DIRS Lab: MicroScene 2, 12 months*  
 data analysis (IDL, DIRSIG)  
 CAD drawings for sensor modeling (Rhino)  
 personnel supervision (field work)

**Researcher: 3 PhD projects**  
*UC Berkeley, 78 months*  
 programming (MATLAB, IDL, Python)  
 data analysis (WEKA, ENVI, ArcGIS, MATLAB)  
 extended data collection (mountainous forests)  
 trend prediction (WEKA)

### DATA VISUALIZATION



**Remote sensing scientist**  
*InspecTools, LCC, 6 months*  
 large dataset analyses (lastools, ENVI, ArcGIS)  
 product development for a power utility (eCognition)  
 data visualization (Illustrator and movies)

**Data visualization specialist**  
*Oakland Museum of California, 18 months*  
 scientific concept visualization (Flash, Illustrator)  
 data analysis for museum display visualizations (Python)



**Cartographer / consultant**  
*IHS Global Insight*  
 gathered and compiled large datasets  
 designed large-format maps (Illustrator, ArcGIS)



**Art Director**  
*Berkeley Science Review, 26 months*  
 magazine layout, production (InDesign, print press)  
 data visualizations and illustrations (Illustrator)  
 team supervisor and coordinator



**Cartographer**  
*Little Sphaeroid Press, 30 months*  
 data gathering and cleanup (ArcGIS, shell scripting)  
 map design and production (Illustrator, ArcGIS, ENVI)



**Photographer**  
*Multiple projects and employers*  
 directed and assisted with professional photo shoots  
 published in magazines (Wired and BSR)



**Traditional CV available**  
Updated in March 2015