MIKE LACKNER

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EDUCATION

Masters of Science in Geography, Fall 2006

University of Toronto, Toronto, ON (Supervisors: Dr. Tenley Conway, Dr. Jing Chen) Thesis: An Object-Oriented Approach to Urban Land-Cover and Land-Use Classification

Also published as: **Object-Oriented Image Analysis**. March 2008. VDM Verlag Dr. Mueller. ISBN: 3836481669. 156 pages.

Bachelor of Arts (with High Honors) in Geography, Spring 2003

Portland State University, Portland, OR (Supervisor: Dr. Joe Poracsky) Research Project: Urban Forest Canopy Cover: Portland, Oregon, 1972-2002

SOFTWARE / TECHNICAL SKILLS

 ArcGIS ArcView Erdas Imagine PCI ENVI eCognition 	 GPS S-Plus R SPSS Fragstats GRASS 	 VBA, Python Scripting Operating systems: Windows, UNIX MS Office Suite (Access, Excel, Word, PowerPoint, FrontPage) Adobe Photoshop, Illustrator CorelDraw
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WORK EXPERIENCE

Remote Sensing & Geospatial Analyst (November 2008 – present) 4DM Inc.

- Production of DEMs from LiDAR and orthophoto imagery for hydrological modeling.
- Extracted sub-aquatic vegetation from QuickBird imagery that was atmospherically corrected.
- Analysis of Landsat thermal bands for water change detection and spatial resolution effects.

Remote Sensing/GIS Analyst

(March 2007 – October 2008)

University of Toronto

- Performed object-based classification of Landsat imagery for Southern Ontario region.
- Explored Ikonos imagery and hemispheric pictures for urban forest canopy classification.
- Compiled and rectified aerial photography for historical analysis of Toronto's waterfront.
- Analyzed spatial evolution of power retail phenomenon within the Greater Toronto Area.

Sessional Lecturer

(September 2007 – December 2007)

(September 2004 – December 2006)

(May - August 2005, May - August 2006)

University of Toronto

- Taught course "Geographic Information and Mapping I" at second-year university level.
- Delivered lectures, prepared exams, and assessed course work for 100 students.
- Supervised four teaching assistants for managing six lab sections.

Teaching Assistant

University of Toronto

- Lead laboratory part of courses related to GIS, geostatistics, and physical geography.
- Prepared and presented lab material, including assignments and lab exercises.
- Graded exams and assignments.

Research Assistant

University of Toronto – Cartography Center

- Collected GIS data related to Toronto's urban growth to produce maps and reports.
- Automated geocoding procedures for non-spatial data in different formats.
- Performed various other GIS and cartographic tasks.

Remote Sensing/GIS Technician

(October 2003 – August 2004)

Space Imaging (Portland, Oregon)

- Analyzed land-cover of Washington's and Oregon's coastal areas, using Landsat imagery.
- Performed imagery-based quality control of canopy and pervious-impervious classifications.
- Implemented modeling steps and conducted quality control on urban classification project.

Research Assistant

(August 2002 - June 2003)

Portland State University – Cartographic Center

- Analyzed Portland's tree canopy cover, using aerial photography and Landsat imagery.
- Compared data from three decades to produce maps, tabular output, reports, and a website.
- Prepared several presentations for public meetings and conferences.

SELECTED COURSEWORK

 GIS I & II: Introduction and Applications Advanced GIS Maps and Models Quantitative Methods for Geography Map Design and Production Urban Geography 	 Landscape Biogeography Visual Image Analysis Digital Image Analysis Accuracy of Spatial Databases and Geostatistics Dreamweaver Web Design and Maps

SCHOLARSHIPS / AWARDS

•	UofT Fellowship University of Toronto	(2004-2005)
•	International Student Scholarship Portland State University	(2002-2003)
•	Undergraduate Research and Creative Activity Award Portland State University	(January 2003)
•	Columbia Slough Watershed Achievement Award Columbia Slough Watershed Council, Portland, OR	(November 2003)
•	GIS in Action 2003 Poster Session "Best Student Entry" - GIS in Action Conference, Portland, OR	(April 2003)

SELECTED PUBLICATIONS / PROFESSIONAL MEETINGS

- "Determining Land-Use Information from Land Cover through an Object-Oriented Classification of IKONOS Imagery." M. Lackner and T. M. Conway. Canadian Journal of Remote Sensing. Volume 34, Number 2. April 2008.
- "Use of Ancillary Data in an Object-Oriented Classification of Urban Land Cover." Annual Meeting, Association of American Geographers. San Francisco, CA. April 17-21, 2007.
- "Urban Land-Use and Land-Cover Classification through an Object-Oriented Approach." Annual Meeting, Association of American Geographers. Chicago, IL. March 7-11, 2006.
- GEOIDE Summer School. University of Laval, Quebec City, QC. May 22-27, 2005. Attended courses: Practical GPS, International Standards Metadata.
- "Sheltering the Metroscape: Assessing the Urban Forest." J. Poracsky and M. Lackner. *Metroscape, Institute of Portland Metropolitan Studies.* Winter 2004, pp. 13-19.
- "Urban Forest Canopy Cover in Portland, Oregon: 1972-2002." J. Poracsky and M. Lackner. Final Project Report, Prepared for *Portland General Electric* and *City of Portland Urban Forestry Commission*. July 2004.
- "2002 Urban Forest Canopy & Land Use in Portland's Hollywood District." GIS in Action 2004. Portland, OR. May 11-13, 2004.
- "Urban Forest Collaboration in Portland, Oregon: 1972-2002." J. Poracsky and M. Lackner. Public Participation GIS Conference, *URISA*. Portland, OR. July 20-22, 2003.