

# Evan S. Ackerman

## EDUCATION

- 2001 – 2005**                      **Bates College**                      **Lewiston, ME**
- Graduated in 2005 with honors in geology
  - Awarded “Best Geology Thesis” by the Bates College Geology Department
  - Independent studies include Remote Sensing Astrogeology, Physics of Planetary interiors, and independent projects on Martian glacial landforms and Martian pit chain features
- Summer 2000**                      **Portland State University**                      **Portland, OR**
- Summer course, G456 Astrogeology
- 1998 – 2001**                      **Oregon Episcopal School**                      **Portland, OR**
- Graduated in 2001 with honors in science
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## RESEARCH & WORK EXPERIENCE

- 2006 – Present**                      **Ackerman Digital Consulting**                      **Portland, OR**  
*Founder, Consultant*
- Provider of customized GIS data integration and visualization technology
  - Online distribution of imagery and shapefile data via Google Earth and Google Maps
- 2005 – 2006**                      **VineView Imaging, LLC**                      **St. Helena, CA**  
*GIS Analyst, Software Engineer*
- Compiled an ArcMap database to organize data and provide flight plan structure. Wrote VB scripts for ArcMap and MS Excel to assist in automated image processing and calibration
  - Performed radiometric and spectral correction and calibration on collected aerial multispectral imagery to create plant vigor classification maps using RSI ENVI
  - Supervised gyrostabilized multispectral digital cameras and GPS/IMU systems on photography aircraft
  - Designed and implemented a new website, including a secure data distribution system
- 2002 – 2005**                      **Bates College Geology**                      **Lewiston, ME**
- Completed and successfully defended an honors geology thesis entitled “Volumetric Analysis of Martian Rampart Craters”
    - Awarded “Best Presentation” by the Geological Society of Maine for thesis research
    - Presented thesis research at the 36<sup>th</sup> Lunar and Planetary Science Conference
- Summer 2004**                      **Brown University**                      **Providence, RI**  
*Guest Researcher*
- Received grants from the Maine Space Grant Consortium and the Rhode Island Space Grant Consortium to pursue independent research, developed an approach for detailed and systematic volumetric analysis of Martian surface features, specifically rampart craters
- Summer 2003**                      **Space Imaging, Inc (now GeoEye)**                      **Portland, OR**  
*GIS Analyst*
- Processed Ikonos satellite images to 1m color using Erdas Imagine. Collected ground control points to calibrate Ikonos imagery with Landsat data. Spectrally classified images to detect pervious and impervious surfaces for watershed management
  - Performed quality control and editing of dynamic segmentation events in ArcGIS to produce a Salmon Resource Area Map for the Oregon Department of Transportation

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**1998 – 2001 Oregon Episcopal School Portland, OR**

- Completed a two year research project, "Using Remote Sensing Data to Compare Impact Craters on Mars and Venus"
    - 8 awards, including 1<sup>st</sup> place, 2000 and 2001, Oregon Junior Academy of Science; 2<sup>nd</sup> place, 2001, National Imaging Technology in Education Conference
    - Presented at 6 local and national conferences, including: International Digital Imaging Conference, 2001; Oregon Academy of Science, 2001; National Computer Conference for Education, 2001; American Association for the Advancement of Science, 2001 and 2002
    - 2 academic publications, including *The Oregon Science Teacher*, Sept/Oct 2000
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TRAINING

- 8+ Years experience with digital image processing and geospatial analysis, specifically with planetary science data (including MOC, MOLA, Viking, THEMIS, Magellan)
  - Experienced with ESRI Arc Suite (9.1), RSI ENVI (4.1), Erdas Imagine
  - Experienced with ISIS and Linux/UNIX, ImageJ, Scion Image, Image4PDS, NASAView, 3DEM, GlobalMapper, GridVIEW
  - Experienced with MS Visual Basic and custom programming of ArcMap and MS Excel utilizing Visual Basic for Applications (VBA)
  - Experienced with Adobe Photoshop CS2, Adobe Illustrator CS2, Java, and raw HTML
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VOLUNTEER  
EXPERIENCE

**Summer 2005 - 2006 California Raptor Center UC Davis, CA**

*Volunteer Intern*

- Assisted in captive raptor management, including medical care, training, and rehabilitation of injured and abandoned birds of prey

**2004 – 2005 Maine Space Grant Consortium Lewiston, Maine**

*Volunteer Presenter*

- Participated in Maine Space Day activities, directed middle school students in mineral identification projects and spectral experiments
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INTERESTS AND  
ACTIVITIES

**Highland Bagpipes**

- Playing professionally since 1990
- Active competitor in Grade I, member of the Saffron United Pipe Band in Babylon, NY
- Pipe Major of the Sir James McDonald Pipe Band, 1999-2001
  - Placed 1<sup>st</sup> in Grade IV in the Western United States, 2000
  - Placed 11<sup>th</sup> at the World Pipe Band Championships in Glasgow, Scotland, 2001

**Writing**

- 2001 Scholastic Art & Writing Silver Award, Short Story: *The Prophet*
- Freelance writer for Purple Mountain Press, national children's newspaper (circ. 320,000)

**Sports**

- Varsity tennis for Wilson High School, 1997-1998
  - Varsity soccer for Oregon Episcopal School, 1998-2000
  - 2<sup>nd</sup> place U18 badminton, Oregon State Games, 1999
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