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George V. Landon

Education

- 2003 – Present **PhD Computer Science**
University of Kentucky, Lexington, KY
- Advisor: W. Brent Seales
 - Expected graduation: **Fall 2007**
 - Proposed dissertation title: “*New Techniques for Acquisition, Restoration, and Visualization of 3D Documents*”
 - Completed 57 graduate hours: GPA 3.632/4.0
- 1999 – 2002 **BS Computer Science**
University of Kentucky, Lexington, KY
- Cumulative GPA 3.67/4.0
 - Magna Cum Laude

Experience

- 2003 – Present **Research Assistant**
University of Kentucky, Lexington, KY
- Developed 3D scanner for the acquisition of Cultural Heritage artifacts
 - Performed research on-site with The Instituto de Cultura Puertorriqueña, Puerto Rico, USA
 - Developed a virtual museum to display and interact with digitally acquired artifacts
 - Performed research on-site with The Ashmolean Museum, Oxford UK
- Spring 2005 **Research and Development Consultant**
MSRCo, Lexington, KY
- Developed and implemented a system for multi-view 3D reconstruction
 - Acquired data of agricultural animals on-site
- 2002 – Present **Independent IT Contractor**
Opticare Vision Centers, Cherry Grove, OH
- Installed multiple computer network upgrades
 - Upgraded systems with new optometric applications
- 2001 – 2002 **Computer Technician (Summer Intern)**
Diversified Ophthalmics, Cincinnati, OH
- Managed computer and supplies purchasing
 - Handled direct and phone-based technical support issues

Research Interests

- Computer Vision, Image Processing, 3D Computer Graphics
- Active 3D Acquisition, Stereo Vision, Shape from Shading, and Structure from Motion
- Digital Libraries and Museums, New interfaces for Digital Artifact Interaction, and Security Applications using Computer Vision and Graphics Methods

Teaching Experience

- Summer 2006 **Summer Undergraduate Research Instructor**
University of Kentucky, Lexington, KY
- Taught 7 tutorials covering various aspects of 3D computer graphics including 3D transformations, Rendering pipeline, Texture mapping, and Shading/Lighting
- 2003 – Current **Guest Lecturer**
University of Kentucky, Lexington, KY
- CS335 – Graphics and Multimedia offered by Dr. W. Brent Seales
Topic: Introduction to Usability Engineering – Spring 2007
 - CS335 – Graphics and Multimedia offered by Dr. W. Brent Seales
Topic: Introduction to Java programming – Spring 2007
 - CS637 – Exploring Virtual Worlds offered by Dr. W. Brent Seales
Topic: Applications of Immersive Displays – Fall 2006
 - CS335 – Graphics and Multimedia offered by Dr. W. Brent Seales
Topic: Image Manipulation – Fall 2005
 - CS335 – Graphics and Multimedia offered by Dr. W. Brent Seales
Topic: 2D Clipping Algorithms – Spring 2003
- Fall 2002 **Academic Grader**
University of Kentucky, Lexington, KY
- STA281: Probability and Statistics offered by Dr. Kert Viele

Teaching Interests

- Computer Vision, 2D/3D Computer Graphics, Image Processing
- Data Structures, Algorithms, and C/C++/Java Programming

Awards

- \$750 NSF-Sponsored Travel Grant to ICCV2005
- \$800 University of Kentucky Student Travel Support Award
- Tau Beta Pi engineering honor society
- College of Engineering scholarship

Awards (continued)

- Academic Excellence scholarship

Professional Activities

- Program Committee – IEEE Computer Science Conference on Computer Vision and Pattern Recognition 2007
- Program Committee – IEEE International Conference on Computer Vision 2007
- Reviewer – IEEE Computer Science Conference on Computer Vision and Pattern Recognition 2006
- Reviewer – International Journal of Machine Vision Applications
- President – Association for Computing Machinery UK Chapter 2005-2006
- Vice-President – Association for Computing Machinery UK Chapter 2004-2005
- Student member – Association for Computer Machinery(ACM)
- Student member – Institute of Electrical and Electronics Engineers(IEEE)
- Member – IAPR-TC-19 Computer Vision for Cultural Heritage Applications

Professional Skills

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|---------------------|--|
| <i>Languages</i> | • C, C++, JAVA, Scripting: Javascript, PHP, Python |
| <i>Environments</i> | • OpenGL, GLUT, QT, .NET, OpenCV |
| <i>Systems</i> | • Linux, Windows 9x/XP/200x, Solaris, Unix |
| <i>Applications</i> | • Matlab, Mathematica, 3D Studio Max, Raindrop Geomagic, Adobe Photoshop/Premiere/Encore, Office Suite, Web Publishing |

Publications

Refereed Journals

- George V. Landon and W. Brent Seales. Petroglyph digitization: enabling cultural heritage scholarship. *Machine Vision and Applications*. 17:6, pages 361-371, Springer Berlin / Heidelberg, December, 2006.

Refereed Conferences

- George V. Landon, Yun Lin, and W. Brent Seales. Towards automatic photometric correction of casually illuminated documents. Technical Report TR-461-06, Department of Computer Science, University of Kentucky, Lexington, KY, December 2006. To appear in *IEEE Computer Vision and Pattern Recognition 2007*.

Publications (continued)

- Saikat Chakrabarti, **George V. Landon**, Mukesh Singhal. Graphical Passwords: Drawing a Secret with Rotation as a New Degree of Freedom. Technical Report TR-468-06, Department of Computer Science, University of Kentucky, Lexington, KY, December 2006. *To appear in Proc. of The Fourth IASTED Asian Conference on Communication Systems and Networks AsiaCSN 2007.*
- M. Sun and R. Yang and L. Yun and **George Landon** and W. B. Seales and M. S. Brown. Geometric and Photometric Restoration of Distorted Documents. In International Conference on Computer Vision 2005, volume II, pages 1117-1123, 2005.
- George V. Landon and W. Brent Seales. Building and Visualizing 3D Textured Models for Caribbean Petroglyphs. In 21st Congress of The International Association of Caribbean Archaeology (Trinidad and Tobago), July 2005.

Book Chapters

- George V. Landon and W. Brent Seales. New methods for rock art recording and virtual analysis. In Michael A. Cinquino, Michele H. Hayward, and Lesley-Gail Atkinson, editors, *Caribbean Rock Art*. The University of Alabama Press. In Press.

Invited Talks

- George V. Landon and W. Brent Seales. New Methods for Rock Art Recording and Virtual Analysis. *Symposium on Latin American Rock Art: Conservation and Research Status*. 2006 meeting of the Society of American Archaeology.

Other Publications

- W. Brent Seales and **George V. Landon**. The Museum and the Media Divide: Building and Using Digital Collections at the Instituto de Cultura Puertorriqueña. In *D-Lib Magazine*, volume 11, May 2005.

Technical Reports

- Yun Lin, **George V. Landon**, and W. Brent Seales. Developing a Framework for Acquisition, Preservation, and Dissemination of 3D Documents. Technical Report TR-463-06, Department of Computer Science, University of Kentucky, Lexington, KY, December 2006. *Submitted to Special Issue of IEEE Computer Graphics and Applications.*

References

- Dr. W. Brent Seales, Associate Professor
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- Dr. Jerzy Jaromczyk, Associate Professor
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