



Dr. Spencer Barnes

Assistant Professor

School of Journalism and Mass Communication

Campus Box 3365

University of North Carolina at Chapel Hill

Chapel Hill, NC 27599

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919-962-4650

srbarnes@email.unc.edu

Education

Doctorate of Education in Technology Education (Ed.D.), North Carolina State University, August 2011

Specialization: Engineering Education

Dissertation: The Effects of Worked Examples on CAD Performance and Learning Efficiency

Advisor: Eric N. Wiebe

Master of Industrial Design, North Carolina State University, May 2007

Thesis: The Efficacy of Blended Learning for Industrial Design Education

Advisor: Brian Laffitte

Bachelor of Graphic Design, Minor in Spanish, North Carolina State University, May 2004

Cum Laude

Professional Experience

Assistant Professor, School of Journalism and Mass Communication, University of North Carolina at Chapel Hill
2012-present

Lecturer, School of Journalism and Mass Communication, University of North Carolina at Chapel Hill
2011-2012

Adjunct Assistant Professor, College of Design, North Carolina State University
2007-2010

Certifications

Mentoring and Teaching Practicum (MATP), North Carolina State University, 2010

Mentor: Dr. Haywood Brown, Chair of Obstetrics and Gynecology, Duke University

Certificate of Accomplishment in Teaching (COAT), North Carolina State University, 2007

Honors

ACAAGS Teaching & Tutorial Award, North Carolina State University, 2007

ACAAGS Student of the Year Award, North Carolina State University, 2006

ACAAGS Student of the Year Award, North Carolina State University, 2005

Awards by Taught Students

Sean Coleman, Winner, Shell Eco-Marathon Americas (SEMA) Urban Concept Car Competition, Autodesk, 2010

David Bulfin, Runner up, Desire Design Competition, Domus Academy and the Audi Group, 2009

Jon Yu, Finalist, Build Something Competition, Autodesk, 2008

Publications

Refereed Journal Articles

5. Barnes, S., & Ruel, R. (under review). *Examining the processes involved in the design of information graphics: An exploratory study.*
4. Barnes, S., & Wiebe, E. (under review). *The effects of worked examples on CAD performance: An exploratory investigation.*
3. Barnes, S., & Wiebe, E. (under review). *The application of a Functional Interaction Model for solid modeling processes.*
2. Barnes, S., & Ruel, R. (2012). A review of Alberto Cairo's "The Functional Art: An Introduction to Information Graphics and Visualization". *Visual Communication Quarterly*, 19(4), 257-259.
1. Barnes, S. (2008). The context and experience of the critique: A qualitative study. *The International Journal of the Arts in Society*, 3(2), 1-6.

Refereed Conference Papers

5. Rankin, T., Shaw, D., Barnes, S., Terry, T., Kirk, K., Hayes, B., and Von Stein, P. (2011). *A disappointed lion withdraws from a sheepfold: Turning points in history – was Gettysberg one?*. Paper published for the Symposium on the 19th Century Press, the Civil War, and Free Expression, Chattanooga, TN.
4. Barnes, S., Wiebe, E., & Branoff, T. (2011). *The effects of worked examples on CAD performance: An application of the Four-Component Instructional Design Model to CAD instruction.* Paper published for the 118th ASEE Annual Conference & Exposition, Vancouver, Canada.
3. Barnes, S. (2010). *Are designers investing in creativity? Applying the framework of the Investment Theory of Creativity to designers.* Paper published for the 2010 IDSA International Conference and Education Symposium (DIY Design: Threat or Opportunity), Portland, OR. Retrieved from <http://www.idsa.org/sites/default/files/AreDesignersInvestinginCreativity.pdf>
2. Barnes, S. (2008). Being critical of the critique in Industrial Design education: A qualitative study. In L. H. Hoffer (Ed.), *2008 Eastman/IDSA National Education Symposium Proceedings* (pp. 15-22). Phoenix, AZ: Industrial Design Society of America.
1. Barnes, S. (2007). The efficacy of learning in a blended learning environment for Industrial Design education. In C. Cullen (Ed.), *2007 Eastman/IDSA International Education Symposium Proceedings* (pp. 33-40). San Francisco, CA: Industrial Design Society of America.

Other Publications

11. Barnes, S. (2011). *Helping students understand hierarchical patch modeling for automotive design.* Retrieved August, 2, 2011, from http://aliasdesign.autodesk.com/learning/resources/details/Helping_Students_Understand_138901/
10. Barnes, S. (2011). *The effects of worked examples on CAD performance and learning efficiency* (Doctoral Dissertation).
9. Barnes, S. (2009). *Students learn digital prototyping by combining Autodesk products.* Retrieved June, 15, 2009, from http://aliasdesign.autodesk.com/learning/resources/details/Students_Learn_Digital_134691/
8. Barnes, S. (2009). *Action figures come to life with the help of Autodesk software.* Retrieved Jan. 22, 2009, from http://students4.autodesk.com/?nd=m_newarticle_detail&article_id=3428&use_filter=m_articles&return_nd=m_articles&use_community_filter=Industrial%20Design

7. Barnes, S. (2008). *AliasDesign :: Bringing Action Figures to Life*. Retrieved Dec. 15, 2008, from http://aliasdesign.autodesk.com/learning/articles/details/Bringing_Action_Figures_to_Life_133411
6. Barnes, S. (2008). *NCSU students give character to designs with Dimension 3D printer*. Retrieved Nov. 15, 2008, from <http://www.dimensionprinting.com/successstories/successstoryview.aspx?view=5&title=NCSU+Students+Give+Character+to+Designs+with+Dimension+3D+Printer>
5. Barnes, S. (2008). Striking a pose at NCSU: Class uses multiple software packages to design action figures. *Design Perspectives*, 26(1), 10.
4. Barnes, S. (2007). *Innovation in action at North Carolina State: Industrial Design department uses today's best tools to foster leaders of tomorrow*. Retrieved June 22, 2007, from <http://usa.autodesk.com/adsk/servlet/item?siteID=123112&id=9809002&linkID=8392772>
3. Barnes, S. (2007). NC State program blends lessons in digital product modeling. *Design Perspectives*, 25(3), 10.
2. Barnes, S. (2007). *Master of Industrial Design degree at North Carolina State University College of Design* (DVD).
1. Barnes, S. (2007). *The efficacy of blended learning for Industrial Design education* (Master's thesis).

Teaching Experience

University of North Carolina at Chapel Hill

JOMC 585 3D Studio

JOMC 182 Introduction to Graphic Design

North Carolina State University

ID 415 Advanced Digital Project Modeling

ID 315 Beginning Digital Product Modeling

Grants

Ribbon of Hope, GlaxoSmithKline (unfunded), 2008

Macromedia Breeze (Adobe Acrobat Connect Professional, non-monetary), Adobe, 2006-2007

Service

University Service

Member, Search Committee for *Lead Digital Media Producer*, Morehead Planetarium and Science Center, 2013

Member, UNC Womens' Basketball Team *Fans in the Stands* Committee, 2012

Member, Leadership Advantage Advisory Board, 2012

School and Department Service

Member, Administrative Board, 2013

Member, Faculty Advisor to *Kappa Tau Alpha*, 2013

Member, Assessment Planning Committee, 2012

Member, Diversity Activities Committee, 2012

Member, Hearst Contest Advisors (Multimedia), 2012

Member, Local Review Committee on Research Using Human Subjects (IRB), 2012

Member, Scholarships Committee, 2012

Professional Affiliations

Association for Education in Journalism and Mass Communication
Epsilon Pi Tau Honorary Society
Online News Association
Phi Kappa Phi
Society of News Design

Hosted - Guest Speakers

Jackie Jones, BMW DesignworksUSA, Marketing and Communications Manager, October 24, 2012
Michelle Marsh, WRAL, Anchor and Reporter, June 27, 2012
Matthew Rhoades, NIKE, Global Creative Director for Athletic Training and Team Sports Equipment, October 27, 2011
Chris Rhoades, Mercedes-Benz Advanced Design Center, Chief Designer, April 15, 2011
Chris Chapman, BMW, Director of Automotive Design and Director of Transportation Design Depts., Nov. 20, 2009
Chris Hisey, Autodesk AliasStudio Specialist, Oct. 29, 2008
Thom Tremblay, Autodesk Inventor Engineering Specialist, Oct. 3, 2008
Chris Hisey, Autodesk AliasStudio Specialist, Feb. 28, 2008

Computer Skills

Adobe Acrobat, Acrobat Connect Professional, After Effects, Captivate, Dreamweaver, Encore, Fireworks, Illustrator, InDesign, Photoshop, Premiere; Apple DVD Studio Pro, Final Cut Pro, Shake; Autodesk AliasStudio, Inventor, Maya, Mudbox, Showcase; Dassault SolidWorks; Microsoft Office; Pixologic ZBrush; SAS JMP; Statistical Software for the Social Sciences (SPSS); Techsmith Camtasia Studio, SnagIt;

References

Available upon request.