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## PERSONAL NOTE

This documents seeks to list the accomplishments obtained in service of my professional calling as a professor while acknowledging the credit and glory for each item listed should presented to Christ Jesus, who by his grace, affords me the gifts and talents that make me effective in my endeavors.

## EDUCATION

University of Liverpool, United Kingdom  
Master of Computer Science in Internet Communications, December 2013.

Western Kentucky University  
Bachelor of Arts in Photojournalism, December 2003.

## ACADEMIC EXPERIENCE

University of North Carolina at Chapel Hill  
Assistant Professor, School of Media and Journalism, January 2014-current.  
Faculty Lecturer, Joint Appointment Kenan-Flagler Business School, January 2017-current  
Instructor, School of Media and Journalism, July 2011-December 2013.

## PROFESSIONAL EXPERIENCE

*The Washington Post*  
Director of Video, July 2010 - July 2011.

*The Washington Post*  
Editor of Innovations, September 2008 - July 2010.

## International Mission Board

Steven King  
Aug 30, 2015

Overseas Correspondent, May 2006 - September 2008.

*Lexington Herald-Leader*

Freelance Multimedia Editor/Producer for Kentucky Derby, May 2006 - May 2009.

Washingtonpost.Newsweek Interactive  
Multimedia Editor, January 2004- May 2006.

*MSNBC.com, Olympics.com*

Multimedia Producer, January 2002 - April 2002.

*Birmingham Post-Herald*

Intern Photojournalist, June 2001 - August 2001.

## AWARDS AND RECOGNITION

### *Undercurrent 360*

Summary: Science storytelling website that includes interactive graphics, VR content and narrative video was award Excellence and Innovation in Visual Digital Storytelling by the Online News Association. ONA is the world's largest association of online journalists with a mission is to inspire innovation and excellence in media among journalists.

Role: Co-Executive Producer, Design and Development Lead and Drone Pilot.

Publication date: April 17<sup>th</sup> 2017.

### *Intensive Care for a Damaged Dome*

Summary: A non-touch gesture interface for controlling 3-D models and 360-degree video. Application provides additional information about the renovation through motion tracking. Presented live at the 2015 White House Correspondents dinner to media executives, high-ranking government officials, celebrities and journalists.

Role: Inventor, Designer and Developer.

Invention date: March 1, 2015.

Publication date: Mach 17<sup>th</sup> 2015.

Funding:

Development funded by The Washington Post Innovation Fund.

\$20,000 for development and integration.

### *Raising The Score*

Summary: The interactive documentary project showcases and explains the innovative CARE Community Score Card which enables governments to provide better services to communities. The project was presented in a public screening attended by CARE executives, university donors, program and journalism school supporters, students and parents as well as through an interactive website with audiences of government officials, development organizations and the general public.

Role: Executive Producer and Professor

Publication Date: May 1, 2015.

Funding:

CARE USA, Non-profit aid organization sponsored research grant.  
\$80,000 for content creation and interactive development.

### *Ebola In Liberia,*

Summary: Data visualization site used for decision making at the request of the Minister of Information in Liberia during the Ebola crisis in 2014-15. The project was used to brief the president of Liberia daily and for tracking the spread of the disease.

Role: Development Director.

Publication Date: August 21, 2014.

Honors: Praised by Tony Blair's Commission on Africa for "helpful and outstanding work" in efforts to fight the Ebola outbreak.

Praised in multiple speeches as engaged research by Chancellor Carol Folt including University Day.

Noted by senior class of 2014 as "top opportunity" for students to make an impact in the world.

### FilmSync App

Summary: A mobile application and server technology that provides contextual information for documentary films and news videos.

Role: Inventor, Designer and Developer.

Invention date: February 1, 2014.

Funding:

Knight Prototype Grant for innovation in public service.  
\$35,000 for application design and development.

### *LivingGalapagos.org,* Online issue magazine and interactive documentary.

Summary: *Living Galapagos* documents the issues and conflicts of man trying to live in this island environment.

Role: Associate Producer and Multimedia Coach.

Publication date: 2012.

Honors:

**Winner, South by Southwest Interactive:** Best Student Publication, 2012.

**Gold, Horizon Interactive Awards:** College and university category for interactive presentation, 2012.

**Best in Category, Horizon Interactive Awards:** Short film or video, 2012.

**Gold, Society of News Design.** The SNDs award excellence in Digital Storytelling, 2012.

*Remembering the Shuttle Era*, Multimedia documentary video for *The Washington Post*,  
Summary: *Remembering the Shuttle Era*, the piece mixes 3D modeling, motion graphics  
timeline, historical video footage, photography and video for a look back at the 30-year-old  
program. The video was conceived, written, edited and produced in less than one month by a  
small crew of journalist, videographers, graphic designers and editors.

Role: Executive Producer and Director.

Publication date: July 2011.

Honors:

**2012 Regional Emmy Award for Historic/Cultural Program or Feature.** *Remembering the Shuttle Era* was awarded the Regional Emmy Award for strong historical storytelling. The Emmy Awards are considered the Oscars of television and recognizes excellence in broadcast and online reporting, 2012.

**Finalist, Webby.** Webby finalist in the Online Film and Video category. Webbys are awarded to the most innovative and interesting presentations on the Internet. 2011.

**2nd Place, White House News Photographers Association for Multimedia Innovation.** Received the honor for the use of “a cinematic approach in a unique online video,” 2012.

*Under Suspicion: Voices about Muslims in America*, Interactive documentary feature for The Washington Post, Multiple videos and interactive interface,

Summary: This project expresses the current situation facing Muslims ten years after the Sept. 11, 2001 attacks. Many Muslims in America struggle to reconcile their American identity with their faith amid skepticism from non-Muslims. In dozens of video interviews conducted by *The Washington Post* journalists across the country, Americans of all religious backgrounds candidly talk about the roots of suspicion, misunderstandings about Islam and confronting their own fears.

Role: Concept, Director and Editor.

Publication date: August 2011.

Honors:

**Regional Emmy Award for News.** One of three nominees in this professional competition, considered the Oscars of television and recognizes excellence in broadcast and online reporting, 2012.

**National Edward R. Murrow Award for Online News Video.** Awarded the honor by the most prestigious awards in broadcast news “honoring excellence in electronic journalism,” 2012.

**3rd Place, White House News Photographers Association for Video Editing.** National award by industry peers. 2012.

*Congresswoman Shot.* Breaking news coverage of Congresswoman Gabrielle Giffords' shooting in Tucson.

Summary: In the moments and days following the shooting of Gabrielle Giffords in Tucson, The Washington Post delivered accurate, informative, exclusive and emotional video storytelling.

Role: News Director and Lead Editor.

Publication date: January 2011.

Honors:

- **National Edward R. Murrow Award for Online News Video.** Awarded by the most prestigious award in broadcast news "honoring excellence in electronic journalism," 2012.

*TimeSpace App.* Interactive map and timeline interface that tracks media across the globe for *The Washington Post*.

Summary: This interactive experience catalogs media from various news organizations into a single interface that is easily filtered by time and place. The application can focus on a particular subject of interest such as TimeSpace: Election or more broadly such as TimeSpace: World. The system extracts, geo-tags and catalogs 10,000+ media items per day.

Role: Visionary, Editor and Technical Lead.

Publication date: October 2008, 2009 and 2010.

Honors:

**Editor and Publisher wrote:** "Taking website aggregation to a new level, *The Washington Post* today launched an online map that essentially brings together all aspects of its presidential campaign coverage into one place," 2009.

**PBS Media Shift wrote:** "The brilliance of *TimeSpace* is that it is not just one project. It was built as a framework, so that different maps could be created to cover different topics," 2009.

*Andaman Rising,* Online issue magazine and interactive documentary.

Summary: *Andaman Rising* documents the issues and successes of a culture rebuilding after the 2004 Asian Tsunami.

Role: Associate Producer and Multimedia Coach.

Publication date: 2009.

Honors:

**First Place, Online News Association:** Best student online publication, 2009.

**Gold, Horizon Interactive Awards:** College and university category for interactive presentation, 2009.

**Silver, Society of News Design.** The SNDs award excellence in news and information design and interactivity, 2009.

## Other Awards and Honors

**Pictures of the Year International.** International photojournalism and multimedia competition founded in 1944; receives 30,000-40,000 entries annually.

**3rd Place, Best Use of Multimedia.** Winning entry: The Mountain Workshops Web site, Role: Multimedia coach and producer, 2008.

**1st Place, News Picture Story.** Winning Entry: *Afghan Election*, Role: *Multimedia Editor*, 2004.

**1st Place, Issue Reporting Picture Story.** Winning Entry: *Monument to Failure*, *Multimedia Editor*, 2004.

**3rd Place, Best Use of Multimedia.** Winning entry: *Camera Works*, [washingtonpost.com/photo](http://washingtonpost.com/photo), Role: Multimedia Producer, 2004.

**National Press Photographers Association's Best of Photojournalism.** One of the largest and most prestigious photojournalism contests in the world; receives 20,000-30,000 entries annually.

- **3rd Place Multimedia Package.** Winning entry: *Reframing Mexico*, 2012.
- **2nd Place News Video.** Winning entry: *Able to Serve, Unable to Give*, 2009.

**National Thoroughbred Racing Association, Eclipse Award for Media.** Kentucky Derby Interactive, 2007

## INVENTIONS AND NEW TECHNOLOGIES

### **VR Drone: Flying camera platform for recording live Virtual Reality Video**

The custom-built large drone captures smooth 360-degree video aerial content for news organizations and film productions. The New York Times is a partner and will be the first to use the drone in an upcoming international project to be published in Fall 2017. The VR Drone will also be presented at Journalism Interactive in October.

### **Ducille: Human-tracking robot for recording and streaming live Virtual Reality Video (360 Video)**

Ducille is a semi-automatous robot that captures smooth 360-degree video content. It can be controlled remotely or can follow an on-camera reporter. The prototype was presented during the opening Keynote at Journalism Interactive and presented at ONA 2016 in Denver. Journalism Interactive is the top academic media innovation conference and ONA the largest professional organization conference.

The robot is in the commercialization process which should launch in Fall 2017.

### **Contextual information delivery system for asynchronous viewing of linear experiences**

The FilmSync app uses open-source digital watermarking technologies and pitch-detection processes in a unique way to provide delivery of server-based content in sync with liner presentations even when viewing in live events or when recorded or streamed later. Process and application of technologies are patent pending 2015 and is a recipient of Knight Prototype Grant in 2014.

This technology engages with the journalism industry through second-screen experience apps where news and documentary producers can provide additional, contextual information in sync with the video content. It also has implications in online learning environments and distributed classrooms.

### **Non-touch Gesture Interfaces for interacting with 3D models and 360 video.**

This new experience was envisioned and developed as an interface for *The Washington Post* to display a 3-D model of the Capital dome. It allows users to interact with the content without touching any computer device. This iteration of my first non-touch development from 2012 is more precise and provides for more hand gestures. The technology was presented at 2015 White House Correspondents dinner as part of future technology exhibit.

### **Non-touch Gesture Interfaces for Consuming News and Social Media**

A technology for using a gaming gesture sensor to consume and interact with news and social media. This was a collaboration with Massachusetts Institute of Technology Media Lab team working on the DepthJS library. The concepts, research and a version of the technology was implemented by *The New York Times* in 2013 as the first gesture-controlled news app. Implementation underway with other media properties across the country in 2015.

## BIBLIOGRAPHY

### ***Innovative Interactivity* Editor and Contributor**

Innovative Interactivity is an online publication reaching more than 5,000 multimedia journalism professionals. As editor of *innovativeinteractivity.com* write and cultivate articles on current issues facing the visual storytelling industry. Editor from 2012-2014

### **Contributor to Open Source Development Projects**

News Quiz: Interactive news quiz technology used by various media organizations. Contributor and provided responsive design upgrades and enhancements.

DepthJS: JavaScript engine for controlling web pages through non-touch gestures. Contributor and provided fixes and feature enhancements to the Massachusetts Institute of Technology Media Lab project.

### **Photography Published in Online News Publications**

*Evolving In The Industry*, NPPA: The Visual Student, Publication Date, January 18, 2010.

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<http://blogs.nppa.org/visualstudent/2010/01/18/evolving-in-the-industry-steven-king/>

*Inside TimeSpace, The Washington Post*, Publication Date, February 27, 2009.

<http://www.washingtonpost.com/wp-dyn/content/article/2009/02/27/AR2009022702008.html>

### **Photography Published in Books**

*America 24/7*, Alabama ed., Publication of seven images published in the Alabama state book, Publication date: 2004.

### INDUSTRY CONSULTING

*Time Magazine*, Consult on Virtual Reality and Augmented Realty concepts and designed projects for 2016.

*The New York Times*, Consulted on Virtual Reality and Augmented Realty concepts in 2015.

The Washington Post, Consult on new and emerging technologies such as non-touch gesture sensors, Virtual Reality, Augmented Reality and mobile app development.

*The New Republic*, Consulted on interactive media and digital newsroom workflow, Spring 2015.

### TEACHING RECORD

#### **Institute for Defense and Business**

#### **Media Engagement Workshop for Thailand National Broadcasting and Telecommunications Commission**

A one-week course implementing community engagement and human-centered design techniques on working with the broadcast and social media to solve difficult issues concerning an Islamic insurgency in southern Thailand.

#### **Cooperation on Stability Operations**

A one-week course that uses case studies to teach problem solving and media relations in crisis situations.

#### **Communications University of China, Beijing, China**

**MC600 Multimedia Workshop**, 3 Credits. Students learn to find, document and present stories using photos, video and text and publish them online. Summer 2013

#### **The University of North Carolina at Chapel Hill**



**ABC 11 Interactive Media Workshop**, Three, two-day workshops to bring the entire ABC11 newsroom through training in storytelling on the web. Summer 2015

**UNC Interactive Media Design Workshop**, One week course. A project based workshop where professionals learn how to design, develop and create interactive data applications using HTML, CSS and JavaScript. Summer 2013, 2014 and 2015.

**CSMA's Journalism Teaching Fellowship Program**, 3 Credits. This summer school course teaches high school journalism teachers about photojournalism and how to teach it in their classrooms.

**JOMC 187 Introduction to Multimedia Storytelling**. 3 Credits. An introductory course in interactive development technique and content presentation. Students learn to design, develop and publish storytelling work, including an interactive magazine. Fall and Spring since 2011.

**JOMC 491.003 390.001 Mobile App Design and Development**. 3 Credits. An intermediate course in mobile application design and development techniques. Students learn to conceive, design, develop and deploy mobile applications. Fall 2014.

**JOMC 586 Intermediate Multimedia Journalism**. 3 Credits. An advanced course in interactive development techniques and data visualization. Students learn to present interactive interfaces and how to create data visualizations. Fall and Spring since 2011.

**JOMC 583 Advanced Multimedia Programing**. 3 Credits. An advanced course for journalist to developer database driven applications that provide services to readers. Students learn to think logically, find and present data in visual ways while developing a robust database application. Spring 2012 and 2013.

**JOMC 584 International Documentary Projects**, co-teaching with Patrick Davison. 3 Credits. Students learn to find, document and present stories in other countries for a final documentary website. [AndamanRising.org/](http://AndamanRising.org/), [ReframingMexico.org](http://ReframingMexico.org/), [LivingGalapagos.org](http://LivingGalapagos.org) Summer 2008, Spring 2010 and Spring 2012.

**JOMC 660 Emerging Technologies**, 3 Credits. Students learn how to tell stories in Virtual Reality and Augmented Reality and how to implement those technologies. Fall 2017 and Spring 2017.

**JOMC 717 Information Visualization MATC** 3 Credits. Explores the overlap between several disciplines: cognitive science, graphic design and information visualization. Student learn the basics of graphic design and how to present data visually. Summer 2013 and 2014.

**ONA and NPPA Internship and Job Workshop**. Student learn from an editor's perspective how to best present themselves for employment through a portfolio, resume and cover letter workshop. 2013, 2014 and 2015

**UNC Multimedia Bootcamp**, One week course. A project based workshop where students and professionals learn how to shoot, edit and publish video stories. Summer 2011 and 2012.

## MASTER'S THESES CHAIR

Ashlie White, M.A.T.C Reporting Policy: Examines Insurance company policies and promotes awareness of prosthetics issues. Thesis Committee Chair, Pending Fall 2015

Ray Whitehouse, M.A. Belivers: Inside the Iowa Caucus. Thesis Committee Chair, Spring 2016

John Roberts, MATC Computer and Human Assisted Curating of storytelling. Thesis Committee Chair, Pending Fall 2015

Jason Whitley, M.A.T.C *Diagnosing your Doppelganger*. Thesis Committee Chair, 2015

Mac, Jagmeet, M.A. *Walter's Walk: Documentary on homeless life in North Carolina*. Thesis Committee Chair, 2014

## MASTER'S THESES COMMITTEES

Grayson Mendenhall, M.A. *10,000 a Day.*, Thesis Committee Member, 2015.

Comfort, Ryan, M.A. *Protecting the Boundary*. Thesis Committee Member, 2014.

Kathryn Faulkner, M.A. *Mobile First as a Practical Design Theory*. Thesis Committee Member, 2012.

Vanessa Patchett, M.A., *PTSD Veterans: Tracking the issues facing soldiers suffering from Post Traumatic Stress Disorder*. Thesis Committee Member, 2012.

## SERVICE | UNIVERSITY

Thailand Media Engagement Seminar. Role: Faculty leader, Instructor and Advisor on Thai Media and human-centered policy writing. Bangkok, Thailand Summer, 2015. Taught and helped create curriculum on a strategic communication plan for Thai National Broadcasting and Telecommunications Commission (equivalent to United States Federal Communications Commission) dealing with Islamic insurgents in the Deep South of Thailand.

Ebolainliberia.org. Role: Co-creator, developer and data visualizer. At the request of the Ministry of Information in Liberia I worked with colleagues and students to create a data dashboard that

was used by the government in Liberia to make important healthcare decision in fighting Ebola and was used to brief the president of Liberia daily. August 2014 through March 2015.

onField inField. Role: Creator and Evangelist. 2014 through 2015. Worked with UNC Athletic Director Bubba Cunningham to promote change to NCAA academic rules to help student-athletes become more successful on the field and in their field of study.

Scientist With Stories Workshop and Festival: Scientists with Cameras. Invited Speaker and Panel Moderator, 2012

LiNK: Liberty in North Korea at UNC. Invited speaker, "Inside View of North Korea," Chapel Hill, N.C., November 2011.

## SERVICE | SCHOOL OF MEDIA AND JOURNALISM

UNC Interactive Workshop. Director, Chapel Hill, N.C., May 2013, 2014 and 2015

Resound Magazine:. Technical Advisor and developer consultant for student-driven and grant funded entrepreneurial project, November 2012 – 2014.

VII Master Class and Forum. Moderator and Host presenting with world-renowned photojournalist and documentary film makers from Agency VII, 2013.

Breaking News Coverage. Led students to cover Super Storm Sandy on the Virginia and Maryland coast for *The Washington Post*. Student work was presented on homepage of washingtonpost.com for 20 hours and became the most viewed video on the site for two days. October 2012.

ONA: Online News Association Student Chapter. Faculty Advisor, Fall 2012-current.

Reese News Lab. Consultant and Speaker, Fall 2011-current.

Korean Producers and Directors Educational Institute. Invited speaker, "Future of Interactive Television" Chapel Hill, N.C., July 2012.

UNC Multimedia Bootcamp. Invited speaker, "Future of Online Journalism," Chapel Hill, N.C., May 2012.

Korean Broadcast Journalist Association. Invited speaker, "Covering and Election in a New Media World. Case Study of *The Washington Post*" Chapel Hill, N.C., Fall 2011.

Korean News Editors Association. Invited speaker, "Journalist and Interactive Tools You Can Use" Chapel Hill, N.C., Fall 2011 and 2012.

Student Chapter of the National Press Photographers' Association. Faculty Consultant. Fall 2011-2012.

Journalism Interactive Conference. Board Member, University of Florida 2012, University of Maryland 2013 and University of Missouri 2014.

Invited and organized the presentations to five journalism classes for the technology and journalism professionals of the Washington Post Research and Design team, Spring 2012.

Invited and organized presentations and working secession with professional game designers working for the Scripts funded FiveNineOne Games, October 2012.

## SERVICE | COMMUNITY AND INDUSTRY

Interactive Journalism, National Board Member, January 2012 - current.

Interactive Journalism Conference. Guest Speaker. "Teaching and Creating Data Journalism," April 2015.

Online News Association, Invited Speaker. "Future of Virtual Reality Journalism," October 2014.

Interactive Journalism Conference, Guest Speaker. "Tools for Interactive Journalism," April 2014.

Interactive Journalism Conference, Panel Moderator. "Current state and Future of Data Journalism with Hannah Fairfield of NYTimes and Jeremy Bowers of NPR," April 2014.

Online News Association, Invited Speaker. "Future of Non-Touch Gesture-Based Storytelling," October 2013.

PhotoGenX, International Injustice Storytelling Track, Professor of multimedia storytelling in Jakarta, Indonesia. June - July 2013.

Interactive Journalism Conference, Guest Speaker. "Future of Non-Touch Gesture-Based Storytelling," February 2013.

Chapel Hill Bible Church, Consultant and communications team member for community outreach. November 2012 – current.

North Carolina Virtual Public School, Curriculum Advisory Panel for Photography and Videography courses, July 2012 - current.

North Carolina Museum of Art, Art of Videography Think Tank, Panelist and Curriculum Advisor and Editor, July 2012.

North Carolina Museum of Art, Power of the Image Symposium, Invited speaker, "Behind the Camera of History Changing Moments," presented to North Carolina educators and high school students at NCMA, Raleigh, N.C., April 12, 2012.

The Mountain Workshops, A leading national photojournalism and multimedia journalism workshop. Invited speaker and Story concept consultant, "Video Journalism at *The Washington Post*," Somerset, KY., October 2012.

PhotoNight at UNC-CH. Invited speaker, "From Overseas Correspondent Newsroom Editor," Chapel Hill, N.C., September 2011.

Temple University, School of Computer Science. Guest Lecture, "Visual Development for Innovation," April 2010.

News Innovations Conference, Guest Speaker, "How to Innovate in a Print Newsroom," February 2010.

### **Judging**

National Emmy Awards. Juror, May 2013 and May 2014.

Society of Travel Writers. Interactive Website competition juror, May 2012, 2013 and 2014.

Society of Travel Writers. Mobile Application competition juror, May 2012, 2013 and 2014.

Southeastern Journalism Conference Contest. Interactive News Website competition juror, January 2012.

### **Training**

Mobile Journalism Tools and Technology Workshop. Role: Developed and taught for entire WTVD newsroom over three, two-day courses.

Interactive Journalism Workshop. Role: Developed and taught Intro to Programing for Journalists. Workshop instructor, College Park, MD., April 2013.

UNC Interactive Design and Development Workshop. Role: Director and Faculty, Chapel Hill, N.C. May 2013, 2014 and 2015.

UNC Multimedia Bootcamp. Role: Interactive Journalism instructor, Chapel Hill, N.C., May 2012.

Eddie Adams Workshop. Role: Multimedia instructor and producer, Jeffersonville, N.Y.,  
October 2010.