CURRICULUM VITAE
University of Idaho

NAME: John W Anderson   **DATE:** January 2021

RANK OR TITLE: Professor

DEPARTMENT/UNIT: Virtual Technology and Design

OFFICE LOCATION AND CAMPUS ZIP: AAVTD204, 2491   **OFFICE PHONE:** 885-5844
EMAIL: jwa@uidaho.edu

DATE OF FIRST EMPLOYMENT AT UI: August 1998

DATE OF TENURE: 2014

DATE OF PRESENT RANK OR TITLE: 2020

EDUCATION BEYOND HIGH SCHOOL:

   M.S. University of Idaho, 2006
         Emphasis/major: Architecture
         Supporting Areas of Emphasis: Virtual Technologies
         Thesis: *Phenomenal Interactions within Virtual Environments*

   M.Arch, University of Idaho, 1997
         Emphasis/major: *Virtual Architecture*

   Pennsylvania State University: Collegio Del Romano, Roma, Italia, 1996 (*non-degree*)
         Emphasis/major: *Architecture/Cartography*

EXERIENCE:

   Experience Academic: *University of Idaho*
      Professor, Art and Architecture (2020-current)
      Executive Committee Member-*Visualization*, Center for Resilient Communities-CRC (2019-current)
      Co-Lead CAA, UN-Sustainable Development Solutions Network (2018-current)
      Program Head, Virtual Technology and Design, (2017-2020)
      Executive Leadership Team-ELT member, Idaho EPSCoR (2014-2018)
      Special Assistant, Office of Research and Economic Development-ORED for NSF-EPSCoR, (2014-2018)
      Associate Professor, Art and Architecture (2014-current)
      Co-Director, ISEE, Imaging in Science and Engineering Education (2008-2012)
      Research Lead, Virtual Technology Laboratory-VTL, (2008-current)
      Assistant Professor, Art and Architecture (2008-2014)
      Faculty/Instructor, Virtual Technology and Design (2007-2008)
      Instructor, Department of Architecture (2001-2007)

   Experience Private Sector:
      Fellow: ReThink, Trust for Mutual Understanding (TMU), New York, NY (2020-current)
      Board of Director: AXR-Institute (Autism-Cross Reality), Boise, ID (2019-current)
      Managing Member: Anderson Group LLC (Planning/Development), Moscow, ID (2007-2016)
      Chief Technology Officer: iShoutOut, AR-Business to Business; Research and Development,
      Coeur d'Alene, ID (2013-2014).

Experience (Consulting):
VR Design-Lead: Washington State University/Centers of Excellence - Student Learning Center (SLC), Student Clubs and Creativity Center (SC3), Washington State University-School of Mechanical and Materials Engineering: (2003-2004).

TEACHING ACCOMPLISHMENTS:

Areas of Specialization: Architecture; Design thinking, theory and application; Virtual, Augmented, Mixed/Cross Reality (VR-XR); Social Ecological Systems (SES); Decision Support Systems (DSS); User Experience/Interface (UX-UI); Motion Capture/Haptics; Human Computer Interaction (HCI); Community Narratives/Storytelling – Indigenous Knowledge; AGILE thinking/learning environments; Complex/Living Systems; Game Theory/Balancing/Cognition; Visualization/Virtualization.

Courses Taught: University of Idaho

- o **ARCH 284** Computer Applications in Architecture - 3 credit (FA02, SP03 (6) total sections)
- o **ARCH 374** Computer Applications in Architecture - 3 credit (FA01, SP02 (5) total sections)
- o **ARCH 499** Building Information Modeling - 3credit (FA02, 03, SP03, (9) total sections)
- o **ARCH 500** Master's Res & Thesis, (F, SP, S) 2011-current)
- o **ARCH 504** Allo Reality (F18, F19)
- o **ARCH 504** GRAD SEM: Virtualized Social Ecological Systems – 3 credit (FA 2014-2018)
- o **ARCH 599** Non-thesis Master Research, (SP2012-current)
- o **ISEM301** Gaming for Peace (F18)
- o **VTD 101** Introduction to Virtual Reality – 3 credit (SP 21)
- o **VTD 152** Introduction to Virtual Design - 2 credit (SP 2009-2016)
- o **VTD 244** Introduction to 3D Modeling - 3 credit (FA03, 04, 06, SP04, 05, (16) total sections)
- o **VTD 253.02** Virtual Design I - 3credit (F08, 09)
- o **VTD 254** Virtual Design II - 3 credit (SP09)
- o **VTD 299** DS: Virtual Design I - 4 credit (FA05)
- o **VTD 299** DS: Digital Production – 4 credit (SP20)
- o **VTD299.02** DS: Virtual Design II - 3 credit (SP07, 08)
- o **VTD 299** DS: Intro to Virtual Design – 2 credit (SP06, 07, 08)
- o **VTD 204** ST: Virtual Design I - 3 credit (FA06, 07)
- o **VTD 400** SEM: The Virtual Universe – 3 credit (FA,SP 2008-current)
- o **VTD 404** Other Media - 3 credit (SP13)
- o **VTD 404** ST: Polymorphic Design – 3 credit (SP20)
- o **VTD 404** ST: DNA Production - 3credit (SP06)
- o **VTD 404.02** ST: Animation Production - 3 credit (FA06)
- o **VTD 404.04** ST: Advanced Modeling **-** 3 credit (FA06, 07)
- o **VTD 404.02** ST: Advanced Animation – 3 credit (SP 2006-2008)
- o **VTD 345** Advanced Modeling - 3 credit (FA05, 06, 07)
- o **VTD 355** Virtual Design Studio III - 4 credit (FA 2005, 2008-2011, 2019)
- o **VTD 356** Virtual Design Studio IV - 4 credit (SP 2004-2012)
- o **VTD 457** Capstone Design Studio I - 9 credit (FA 2004, 2008-2017)
- o **VTD 458** Capstone Design Studio II - 9credit (SP 2009-2019)
- o **VTD 499** DS: Non-uniform rational B-Spline Modeling - 2 credit (SP05)
- o **VTD 499** DS: Advanced Modeling II - 3 credit (FA05)

Advising/Mentor: University of Idaho
Post-Doctoral:
Dr. Roger Lew**,** Managing Idaho's Landscapes for Ecosystem Services, SES Decision Support Tools (Idaho EPSCoR-MILES, 2013-2014)

Advising/Mentor: University of Idaho
   Graduate Students (*Major Professor*):

   Julio Gonzalez, M.S. Integrated Architecture & Design: "*Digital Fabrication/XR*" (Expected Fall 2022)

   Nathan Hurlocker, M.S. Integrated Architecture & Design: "*Semantic Virtual Learning Environments for Full Spectrum Autism*" (Expected Fall 2021)

   Reilly Cisco, M.S. Integrated Architecture & Design: "*Connecting the Puzzle Pieces: Adapting Virtual Reality Environments with Biometric Data to Support Learners with Autism Spectrum Disorder*" (M.S. University of Idaho, Summer 2020)

   Nicholas Wood, M.S. Integrated Architecture & Design: "*Learning Through Work and Play: Using Virtual Design Discovery to Facilitate Virtual Environments as a Medium for Active Learning Through Design*" (M.S. University of Idaho Fall 2018)

   Jocelyne Helbling, M.S. Integrated Architecture & Design: "*The Art and Science of Social Network Analysis: computation and Visualization for Multi-Institutional Team Management and Collaborative Research*" (M.S. University of Idaho, Fall 2016)

   Jacob Cooper, M.S. Integrated Architecture & Design: *"Vactor Elucidated: An Observation of Speciation in Interactive Virtual Environment Technologies"* (M.S. University of Idaho, Spring 2015)

   Brad Clark, M.S. Architecture: *"Cognitive Load within Virtual Environments: A Theoretical Approach to the Instruction of Athletics"* (M.S. University of Idaho, Spring 2013)

   Graduate committee member:

   Jared Oxborrow, M.S. Integrated Architecture & Design (University of Idaho, expected Spring 2021)
   Zethnouneay Dubois, M.S. Integrated Architecture & Design (University of Idaho, Fall 2019)
   Trea LaCroix, M.S. Natural Resources (University of Idaho, December 2015)
   Michael McMullan, M.S. Architecture (University of Idaho, May 2012)
   Dave Sherman, M.S. Civil Engineering (University of Idaho, December 2012)
   Samantha Campbell, M.S. Civil Engineering (University of Idaho, May 2012)
   Jorge Jordan Zamalloa, PhD. Civil Engineering (University of Idaho, August 2011)

   Undergraduate: Major Advisor

   2020-current: (20 avg.) VTD program advisees/professional development
   2017-2020: B.S.VTD-Program Head
   2003-2017: (30 avg) VTD program advisees

   Community/National/International Mentor:
International:
   University of Idaho: International Studies mentor. (1) International graduate student; Walid Baba-Ahmed. Universite des Science et de la Technologie d'Oran, Algeria. Meeting times two hours week, mentor eight hours (minimum) per week outside school. Emphasis: urban design, community and cultural narratives. (Spring 2010).

Community:
   Moscow High School: Moscow, Idaho, mentor to (2) senior high school students participating in the Extended Learning Internship (ELI) program, met approximately eight times throughout the semester to mentor on her research and design project in their major of interest, Avatar / Character Development. (Fall2008).

Moscow High School: Moscow, Idaho, mentor to (1) senior high school student participating in the Extended Learning Internship (ELI) program, met approximately eight times throughout the semester to mentor on her research and design project in her major of interest, Avatar/Character Development (Fall 2007).

Materials Developed: University of Idaho

Certificate of Virtual Technology, (12-credit) dual-credit certificate for HS/Community College students (2018).

Idaho-EPSCoR Managing Idaho's Landscapes for Ecosystem Services (MILES) products catalog training and DSS: www.idahoecosystems.org (2014-2018).

Re-developed (committee), the current by-laws for the College of Art and Architecture. (2011-2013, 2016-current).

Assisted in the creation, development, and establishment of the Bachelor of Science degree in Virtual Technology & Design at the University of Idaho (2001).

Courses Developed: University of Idaho:

ARCH 284 - Computer Applications in Architecture *(required)*
ARCH 374 **-** Computer Applications in Architecture *(required)*
ARCH 499 - Building Information Modeling
ARCH 504 - Sem: AlloReality
ISEM 301 - Gaming for Peace
VTD 101 – Introduction to Virtual Reality
VTD 299, 152 - Introduction to Virtual Design *(required)*
VTD 244 - Introduction to 3D Modeling *(required)*
VTD 299, 253, 204 - Virtual Design I *(required)*
VTD 299, 254 - Virtual Design II *(required)*
VTD 355 - Virtual Design III *(required)*
VTD 356 - Virtual Design IV *(required)*
VTD 400 - SEM: The Virtual Universe *(required)*
VTD 404.01 - Other Media
VTD 404.02 - Advanced Animation
VTD 457 - Capstone Design Studio I *(required)*
VTD 458 - Capstone Design Studio II *(required)*
VTD 499,404,345 - Advanced Modeling

SCHOLARSHIP ACCOMPLISHMENTS:

Publications, Exhibitions, Performances, Scholarly Products, Presentations, Grants & Contracts:

Refereed/Peer-reviewed: In Press/ published online / published in print

Gregory, A., Chen, C., Wu, R., Miller, S., Ahmad, S., **Anderson, J.W.,** Barret, H., Benedict, K., Cadol, D., Dascalu, S. M., Delparte, D., Erickson, J., Fenstermaker, L., Godsey, S., Harris, F.C., McNamara, J., Savickas, J., Sheneman, L., Stone, M., Turner, M., Efficient Model-Data Integration for Flexible Modeling, Parameter Analysis and Visualization, and Data Management, *Frontiers*, Water and Hydrocomplexity, DOI: 10.3389/frwa.2020.00002 (2020)

Anderson, J. W., *"The Suspension of Disbelief",* Venice Design 2018, European Cultural Center and GAA Foundation, hardcover, (pgs 22-24) ISBN: 978-90-826559-4-0 (2018)

Smith, A., Kolden, C., Paveglio, T., Cochrane, M., Bowman, D., Moritz, M., Kliskey, A., Alessa, L., Hudak, A., Hoffman, C., Lutz, J., Queen, L., Scott, G., Higuera, P., Boschetti, L., Flannigan, M., Yedinak, K., Watts, A., Strand, E., Van Wagtendonk, J., **Anderson, J.**, Stocks, B., Abatzoglou, J., The Science of Firescapes: *Achieving Fire-Resilient Communities*, BioScience, V66(2):130-146 (2016)

Lew, R., Lau, N., Boring, R., **Anderson, J. W***., International, HCI in Business, Government, and Organizations: ecommerce and Innovation: Digital Innovation: The Role of HCI in Cross-Sector Research on Grand Challenges,* Springer Publishing: (pgs 519-530) DOI: 10.1007/978-3-319-39396-4_48 (2016)

Carthen, C., Rushton, T., Burfield, N., Johnson, A., Nielson, D., Worrell., B., (UNR), **Anderson, J. W**., Lew, R., Wood, N., Ziegler, M., (UI), Delparte, D., Chapman, T., Johansen, J., (ISU), Dascalu, S., Harris, F., (UNR), Design of a Virtual Watershed Client for the WC-WAVE project, Concurrency and Computation: Practice and Experience, Wiley InterScience DOI: 10.1002/cpe (2016)

Chase D. Carthen, Thomas J. Rushton, Christine M. Johnson, Aaron Hesson, Daniel Nielson, Bryan Worrell, **John W. Anderson**, Roger Lew, Nicholas R. Wood, Matthew Ziegler Donna M. Delparte, W. Joel Johansen, Sergiu M. Dascalu, and Frederick C. Harris, Jr., Design of a Virtual Watershed Client for the WC-WAVE Project. *Proceedings of the 2015 International Conference on Collaboration Technologies and Systems (CTS-2015)*, pp 90-96

Smith, A.M.S., Kolden, C.A., Tinkham, W.T. , Talhelm, A.F., Marshall, J.D., Hudak, A.T., Boschetti, L., Flkowski, M.J., Greenberg, J.A., **Anderson, J.W**., Kliskey, A., Alessa, L., Keefe, R.F., Gosz, J.R., Remote sensing the vulnerability of vegetation in natural terrestrial ecosystems, *Remote Sensing of Environment* J.RSE2014.03.038(2014)

Lannom, K.O, Tinkham, W.T. , Smith, A.M.S. **,** Abatzoglou, J., Newingham, B.A. , Hall, T.E. Morgan P., Strand E.K., Paveglio, T.B. and **Anderson, J.W**., Defining extreme wildland fires using geospatial and ancillary metrics*, International Journal of Wildland Fire* WF13065(2013)

Anderson, J.W., Arrizabalaga, G., Virtual Biomedical Education: Learning Biological Processes Through Virtual Design Discovery, Theme: Modalities of Design, International Conference Design Principles and Practices. (Chicago, IL, Feb 13, 2010, *Virtual Presentation*) *Design Principles & Practices: An International Journal (2010).*

Mead, P., Montoto, R., **Anderson, J.W.**, A New Pre-disciplinary, Trans-disciplinary Core, Theme: We have Never Been Pre-Disciplinary, *24ᵗʰ International Conference on the Beginning Design Student, Atlanta, GA, (March 14, 2008*) *paper published in proceedings.*

Exhibitions:

Suspension of Disbelief; **John W. Anderson**, *Palazzo Michiel, European Cultural Centre and GAA Foundation, Venice, Italy. (May 26 – November 25, 2018)*

CAPACITY; **John W. Anderson**, Miranda Anderson, Prichard Art Gallery, College of Art & Architecture Faculty Show, University of Idaho, Moscow, ID. (December 2012 – January 2013).

AgCulture; A study in Volume, accepted for Sustenance, **John W. Anderson**, Miranda Anderson, Visual Arts Collective, Hemmingway Gallery, BSU, *Juried Exhibit (18-89) selected northwest Artists* (May 2012) *honored* **"Best of Show".**

P.O.T.A.T.O.: A visual study of spatial permutation in synchronous networks. **J.W Anderson**, Prichard Art Gallery, College of Art & Architecture Faculty Show, University of Idaho, Moscow, ID. (December 2010 – January 2011).

AgCulture: A Preliminary Study in Scale and Volume. **John W. Anderson**, *Miranda Anderson,* Prichard Art Gallery, College of Art & Architecture Faculty Show, University of Idaho, Moscow, ID. (December 2009 - January 2010).

Performances:

University of Idaho: Inspiring Futures Campaign Celebration, **Capstone student work was used for the gala's premiere Event Introduction, and Final Campaign Closer Video: The students adapted multiple technologies to develop the final 4k video projection. This was a VIP event for the University of Idaho. Boise Center on the Grove. Co-Lead, Aaron Mayhugh Campus Events Manager UI, media UI. January 24, 2015**

Liquid Scenery: New Works Festival 2007, Collaboration between Theatre and Film and Virtual Technology and Design, University of Idaho, 2007 (Faculty Advisor).

Wil to Fly: "Sega-sode" Annual DNA Festival, Theme: Airports, Collaboration between Theatre and Film, Lionel Hampton School of Music and Virtual Technology and Design, University of Idaho, Original Story by David Eames-Harlan, (Theatre and Film), Original Music Score, Barry Uhl (Lionel Hampton School of Music), 2006 (Advisor).

Posters:

This is not a game: Social Ecological System Decision Support Systems, **Anderson, J.W.,** *American Geophysical Union, New Orleans, LA (December 14, 2017)*

Managing Idaho's Landscapes for Ecosystem Services (MILES) network map, Helbling, J., **Anderson, J.W.,** *Innovations in Collaborative Modeling Conference, June 4-5, 2016 East Lansing, Michigan.*

Using an Online Activity to Teach Regulation of the Lactose Operon in a General Genetics Undergraduate Classroom : Digital Study Studio, **Anderson, J.W.,** *Arrizabalaga, G., Knox, D., Minnich, S., poster design: BYU Idaho, Hillam, K., Rasmussen, T., DeWall, M., Kelson, T.,* National Association of Biology Teachers: (October 2011)

Outreach, Collaboration and Service-Learning Projects:

Career Exploration Game for Middle School Students (2019): Collaboration with the Idaho State Board of Education (SBOE) to develop a game that supports *"Go-On Idaho"* in order to assist Idaho students in finding career pathways through education post K-12. Byron Yankey (SBOE-College and Career Program Manager), and **John W. Anderson** (Virtual Technology Laboratory).

Tribal Sovereignty, Statewide research outreach (2017-2018) Idaho EPSCoR: Sponsored a statewide research training program through the MILES program for researchers within Idaho who wish to produce collaborative research with Indigenous Peoples. The initiative developed a training curriculum for all state researchers to engage in research proposals with Indigenous partners. Laura Laumatia (Environmental Specialist, Coeur d'Alene Tribe Lake Management), Caj Matheson, (Cultural Resources Program Manager, Coeur d'Alene Tribe Lake Management), Mark Solomon, (Associate Director, Idaho Water Resource Research Institute), and **John W. Anderson**, (Idaho EPSCoR, Managing Idaho's Landscapes for Ecosystem Services, Lead-Coeur d'Alene)

SalmonSim, University of Alaska, Anchorage –PVT, GINA, Conoco Philips planetarium and visualization theatre, Visualization performance (2016-current). SalmonSim was rendered and adapted for permanent display within the Conoco Philips planetarium and visualization theatre to highlight the behavior characteristics and environmental factors that a sockeye salmon will encounter during a spawning event. There are eight fully immersive planetarium videos that are used for STEM outreach events and public viewing.

Mars Hopper and Tensegrity Lander visualization, Cube-Sats (2009-2016) Center for Nuclear Space Research, CNSR- Idaho National Laboratory INL: The collaboration has expanded to involve researchers from NASA-JPL Advanced Robotics Group. Current design work focuses on the use of INL's nuclear battery capability to power and deploy Cube Sats for future NASA missions. Collaborators Steve Howe (CNSR), John Crepeau (ME) and **John W. Anderson** (CAA)

Digital Study Studio: VR Biomedical Learning Platforms; Some Content is currently covered by SBOE ITIG and is specifically made available for Idaho K-12 students: Currently adopted by the University of Idaho and BYU-Idaho in introductory genetic regulation courses. Content will be made available to the Idaho STEM pipeline shortly after phase2 in AY 2014. http://www.uidaho.edu/isee/studystudiohome The content is scalable and will cover the regulation of DNA and introduce the students to how cells control gene expression **Anderson, J.W.**, Arrizabalaga, G., Knox, D., Minnich, S. *funded by the SBOE ITIG 2010 and INBRE 2011 grants.*

Sustaining Culture: An Interdisciplinary Design Project for the Basque Block, Boise, Idaho. Project for VTD 355 Virtual Design III lead by **John W. Anderson**; university partners included graduate architecture faculty and students from the Idaho Urban Research and Design Center (IURDC), undergraduate Architecture & Interior design faculty and students, and the Integrated Design Lab (IDL); community partners included the Basque Center, the Basque Museum and Cultural Center, private building owners, the Capital City Development Coalition, and the Idaho State Historic Preservation Office. *(2008-2010)*

Non-Credit Classes, Presentations, Graduate Reviews, Seminars, Invited Panel/Speaker:

- *Anderson J. W.*, *Invited Virtual Speaker and Design Mentor: Pacific Blue Studios, "Growing Regenerative Communities", Honolulu, Hawaii (November 9th, 2020)*
- *Anderson J. W., Waterhouse, J., Invited Speaker: Vandal Generations – UI Office of Tribal Relations & Native American Student Center, The Living Indigenous Network of Knowledge, Moscow, Idaho (November 16, 2019)*
- *Anderson J.W., Waterhouse, J., Invited Speaker, Worley-Jacobs: What Good Looks Like: Integrated Community Driven Decision Support Systems to Support the United Nations Sustainable Development Goals, Glasgow, Scotland (August 28, 2019). Sponsors: Alan Hendry, Lead-Worley Group Sustainability, Matthew Pryor, Jacobs Senior Consultant, Environment, Maritime & Resilience*
- *Anderson, J.W., Keynote: Idaho Virtual Reality Council, How Virtual Reality can change the way we teach and learn, Boise, ID (July 24, 2019).*
- *Anderson, J.W., Invited Speaker and Panelist: United Nations World Data Forum, (TA2.19 – Harnessing the potential of data innovation for migration and development interventions: the state of the art, promises and challenges, United Arab Emirates, (October 22-24, 2018) hosted by Federal Competitiveness and Statistics Authority, of United Arab Emirates with support from the Statistics Division of the UN Department of Economic and Social Affairs, under the guidance of the United Nations Statistical Commission and the High-level Group for Partnership, Coordination and Capacity-Building for Statistics for the 2030 Agenda for Sustainable Development.*
- *Anderson J.W., Invited Speaker: Space and Existence, European Cultural Union, Venice (October 12-14, 2018)*
- *Anderson J.W., Speaker: fellow keynotes David E. Sanger, Jane McGonigal, PAX-Technologica, Borah Symposium and Renfrew Colloquium, Gaming for Peace, Moscow, ID (October 8-10, 2018)*
- *Anderson J.W., UNPFII Invited Speaker and Participant: United Nations Permanent Forum on Indigenous Issues, New York, NY (April 16-27, 2018)*
- *Anderson J.W., Invited Speaker: Not Just a Game: When We Play, We Learn, American Geophysical Union, New Orleans, LA (December 14, 2017)*
- *Anderson J.W., Invited Speaker: United Nation's International Day of the World's Indigenous Peoples, Yakutsk, Russia, (August 2017), colleague and National Geographic education fellow and explorer Jon Waterhouse as keynote speaker.*
- *Anderson, J.W., Invited Speaker: Institute for Humanities Research and Indigenous Studies of the North, SES virtualization, Yakutsk, Russia, February 2017*
- *Anderson J.W., Keynote Speaker: Lake Roosevelt Forum,* defining stewardship and recreation for a new generation*, SimSalmon: Vision Support Tools to Meet Ecologic and Habitat Needs. Spokane, WA, (April 21, 2015)*
- *John W Anderson, Invited Speaker, Youth Water Summit - The Virtual Universe: More Real than the Real World? Moscow, Idaho April 20, 2015*
- *Solomon, M.,* **Anderson J.W.**, *Brooks, E., juried presentation, Sixth Annual Pacific Northwest Climate Science Conference, Coeur d'Alene, ID. Nov 4-5, 2015*
- *Anderson J. W., Beall King, A., Plenary Speaker: Spokane River Forum,* The WISDM of bi-state water planning in a Virtual World. (November 20, 2014)
- *Solomon, M.,* **Anderson J. W.**, *Brooks, E., Wilhelm, F., Panelists: Spokane River Forum, We Are Not Alone: Real People in Real Watersheds (November 19, 2014)*
- *Anderson J. W., Invited Speaker, Science on Tap: The Virtual Universe: More Real than the Real World? GIZMO, Coeur d'Alene, ID (October 21, 2014)*

- *Anderson, J.W., Invited Speaker and Panelist: Idaho STEM Innovations Conference: Attitudes, Barriers, and Opportunities Concerning STEM Education in Idaho, Closing the Gender Gap in STEM Fields: The Virtual World Village, Using Virtual Environments to Enhance STEM Awareness and Education to Middle School Girls. Boise, Id (May 28-29, 2014)*
- *Anderson J.W., Keynote Speaker: The Virtual Universe: Lopez Land Trust: Community Lopez Annual Farm to Table Event, Lopez Island, WA October 19, 2013*
- *Anderson J.W., Invited Speaker, Almost Anything: Virtualization in a Virtual Universe: Engineering Research Colloquium, U of I, Moscow Idaho (September 2012)*
- *A Virtual Universe, Idaho National Laboratory (INL) Anderson J.W., Invited Honored Presenter, Idaho Falls, ID (December 2011)*
- *Seminar: Using Visualization Tools to Understand Complex Processes, Kyte, M., Anderson J.W., sponsored by the College of Engineering Outreach program. University of Idaho, Engineering Physics (April 5, 2011)*
- *Something You Don't Know: UCSB Media Arts & Technology, Michael Rotondi, Marcos Novak, John W. Anderson, Invited Honored Reviewer, Santa Barbara, CA (May 2010)*
- *Anderson J.W., Invited Honored Speaker, A Virtual Universe, McCall Rotary*, McCall, ID, USA. (Summer 2009)
- *Kenworthy Student Film Festival, Anderson J.W., Invited Panelist, Moscow, ID, USA. (Spring 2009)*
- *Anderson J.W., Invited Speaker, Community Narratives*, League of Women Voters, Moscow, ID, USA. (Spring 2009)

Capstone Studio Exhibits:

Mars Hopper, video booth exhibit, VTD 355-356 **John W Anderson** (Design Instructor), Steven Howe, (Director): Center for Space Nuclear Research (CNSR) and Idaho National Laboratory (INL) presenter/nominee, World Technology Summit, New York, NY (October 2011)

Traffic Sense: platform booth exhibit, VTD 457-458, **John W Anderson**, Michael Kyte (Design Instructors) Abolins, D., Lauer, J., Foutch, B., (students) University of Idaho Engineering Expo, Moscow, ID (May 2011)

Evolution of Jazz, Interactive digital booth exhibit, VTD 457-458, **John W Anderson**, (Design Instructor) Jernagan, E., Walker, R., (students) Steven Remington, (Director): Showcased Friday, Saturday and Sunday of the event at the Lionel Hampton Jazz Festival, Moscow, ID (February 2011)

Bilbao/Boise: Cultural Navigation. Kiosk for 2010 permanent display in the Basque Museum and Cultural Center; (2010), partners include. Miller, P., Executive Director, Basque Museum and Cultural Center. **Anderson, J.W**, (UI) Assistant Professor, Virtual Technology and Design, Mckibben, S., (UI) Director, Idaho Research and Design Center (IURDC). Bieter, J., PhD, Assistant Professor (BSU), Author "An Enduring Legacy: A History of the Basques in Idaho". Santana, A., Director, Boise State University Basque Studies Center. *funded by: John Calhoun Smith Memorial Fund Grant, (*March 2010).

Grants and Contracts (Pending/In-review):

Jon Waterhouse (PI), **Anderson J. W.**, Brooks, E., Smith, A., (Co-PI's): Living Indigenous Network of Knowledge (LINK), *National Science Foundation*, *$3M, in-review (6-18-20)*

Grants and Contracts (Awarded):

Waterhouse, J., OHSU (PI), **Anderson J.W.,** *UI (Co-PI)*, *LINK-Lake Baikal, Buryat Republic, Trust for Mutual Understanding*, $15,000 funded (2019) *pandemic exception for 2021-22*.

Kolden, C. (PI), Abatzoglou, J., Adam, J., Alessa, L., Hicke, J., (Co-PI's); **Anderson, J.W.,** Brooks, E., Klisky, A., Kruger, C., Liu, M-L., Paveglio, Smith, A., T., Yoder, J. (Senior Personnel); Hazards NSF-SEES: *Advancing Resilience to Compounding Disasters: An Integrated Natural-Human Systems Assessment of Wildfire Vulnerability*, National Science Foundation $2.8M funded-Anderson portion: $187,369 (October 2015-2021)

Lew, R., D., **Anderson, J. W.,** *Computer Operator Support Systems, Battelle Energy Alliance, $36,977 funded (2016)*

Delparte, D. (PI), **Anderson, J. W. (Co-PI),** Edsall, R. (Co-PI), Glenn, N. (Co-PI), Godfrey, B., Frazier, T., *Statewide Integration of CI-Visualization for EPSCoR MILES, $81,500 funded (July 2014-June 2015)*

Harris, F. (PI-UNR), CI-Vis Component Team, **Anderson, J.W,** (ID), Benedict, K., (UNM), Dascalu, S.(UNR), Delparte, D.(ISU), Jackman, T. (DRI), Kobs-Nawotniak, S.(ISU), Stephen, H.(UNLV), Track 2: Collaborative Research: Western Consortium for Watershed Analysis, Visualization, and Exploration (WC-WAVE) *National Science Foundation (NSF-EPSCoR), $4M funded (August 2013-July 2016)*

Anderson, J.W, (PI), Alaska Adapting to Changing Environments (ACEs), *National Science Foundation (NSF-EPSCOR), visualization: sub-award $240,000 funded (July 2013-June 2017).*

Anderson, J.W, (PI) Virtual World Village: A virtual learning environment for STEM education, *Micron STEM Education Innovation, $15,000 funded (June 2013-July 2014)*

Goodwin, P (PI), Benner, S., (Co-PI), Rogers, D., (Co-PI), **Anderson, J.W**. *(Co-PI), EPSCOR RII Track 1: Managing Idaho's Landscapes for Ecosystem Services, MILES, National Science Foundation (NSF-EPSCOR), $24M Funded (July 2013-November 2018)*

LaPaglia, K., (PI), **Anderson, J.W,** (Co-PI) How I do STEM, Community Awareness Campaign, *Micron STEM Education Innovation, $8,000 funded (Jan 2012-Dec 2013)*

Arrizabalaga, G (PI), **Anderson, J.W,** (Co-PI). Visualization of Cell Signaling Topics, *Idea Network of Biomedical Research Excellence, (INBRE) $10,000 funded (August 2010-July2011)*

Kyte, M (PI), **Anderson, J.W,** (Co-PI). Using Visual Simulation Tools and Learning Outcomes-Based Curriculum to Help Transportation Engineering Students and Practitioners to Better Understand and design Traffic Control Systems*, National Institute for Advanced Transportation Technology (NIATT), $110,000 funded (Aug 2010- 2011)*

McKibben, S., (PI), **Anderson, J.W,** (Co-PI) Miller, P., Bieter, J., Santana, A., (Team Members), Boise Bilbao Project, *University of Idaho, John Calhoun Smith Memorial Fund $4,500 funded, (March 2010- March 2011)*

Arrizabalaga, G., PhD, (PI), **Anderson, J.W**, (Co-PI), VR Biomedical Learning Platforms, *Idaho State Board of Education (SBOE), Idaho Technology Incentive Grant (ITIG). $80,000 funded (July 2009-June 2010)*

Sumption, B., (PI), Clevely, B., (Co-PI), **Anderson, J.W**, (RA), A Time Machine to Explore Architectural History*, Northwest Academic Computer Consortium (NWACC), $50,000 funded (July 2001-June 2002)*

Media Coverage:

Idaho Statesman: How this Boise group is using virtual reality to help children on autism spectrum, Idaho Business Review, Sharon Fisher, (December 16, 2019) *https://www.idahostatesman.com/news/local/community/boise/article238275018.html*

Moscow-Pullman Daily News: Students, Gritman take on gigantic project, UI researchers use Gritman hospital technology to study mammoth bones, (2019) *https://dnews.com/local/students-gritman-take-on-gigantic-project/article_d74b0ba4-dfa1-5586-9470-76cd971ba67e.html*

PLOS Ecology Blog: Becoming a Salmon: Highlighting deeper questions in education, decision making and ecology through simulation, (2016) *(http://blogs.plos.org/ecology/2016/03/01/becoming-a-salmon-highlighting-deeper-questions-in-education-decision-making-and-ecology-through-simulation/)*

Outdoor Idaho: Health of Our Lakes, program on Idaho Public Television. May 19, 2016 (http://video.idahoptv.org/video/2365759016/)

SalmonSim: A Virtual Underwater Alaska, Alaska Public Television and Alaska EPSCoR. December 2014. https://www.youtube.com/watch?v=xEasb5BUS1c

"Expanding the World with Technology" Inspired Discoveries-University of Idaho annual research report: Featured Researcher: ***John W. Anderson***, (2013)

"Using Visual Tools and Learning Outcomes-Based Curriculum to Help Transportation Engineering Students and Practioners to Better Understand and Design Traffic Signal Control Systems" (KLK718) National Institute for Advanced Transportation Technology, NIATT: annual research report, Featured Research: *Michael Kyte and* ***John Anderson***. *Cover feature FY-2011 issue.*

"U of I virtual technology program aids in microbiological research": Cover Story, Idaho Business Review, (Vol. 30 No. 25 April 6, 2009). Article on the benefits of virtual technology in Microbiological research. Sites institutional collaboration between *Gustavo Arrizabalaga,* Microbiology, Molecular Biology and Biochemistry (MMBB) *and **John W Anderson**,* Virtual Technology and Design (VTD).

"From Storing Grain to Fostering Growth: Historic Silos Take on New Mission in Idaho", Building on Brownfields, EPA Region 10 Newsletter (vol. 1a May 2008). Article on the proposed Brownfield revitalization and adaptive use of the Jackson Street Grain Elevators by the Anderson Group, LLC, Moscow, Idaho.

Honors and Awards:

Internationally Honored Designer, Venice Design 2018: *The Suspension of Disbelief,* **John W. Anderson***,* European Cultural Centre and GAA Foundation, Palazzo Michiel, Venice, Italy, Juried Exhibit, (50) internationally selected designers, (26 May – 25 November 2018).

Best in Show: *AgCulture; A study in Volume, accepted for Sustenance,* **John W. Anderson**, Miranda Anderson; Visual Arts Collective, Hemmingway Gallery, BSU, *Juried Exhibit (18) selected northwest Artists* (May 2012)

Grand Prize Winner, Best Film: Jernaegan, E., Most Beautiful: Bird, R.; Kenworthy Student Film Festival, **Anderson J.W.,** *Faculty Advisor* (April 2009).

Semi-Finalist (world top-ten), *"Toxoplasma Gondii" Interactive design:* ***Anderson, J.W.,*** *Arrizabalaga, G.; International Science and Engineering Visualization Challenge.   Sponsor: Journal of Science and the National Science Foundation.* (2008).

Semi-Finalist (world top-ten), *"INNER-VISION" Non-Interactive design:* ***Anderson, J.W.,*** *Arrizabalaga, G.; International Science and Engineering Visualization Challenge. Sponsor: Journal of Science and the National Science Foundation.* (2007).

SERVICE:

Major Committee Assignments

o   University of Idaho, President's Online Education Working Group (2020)
o   University of Idaho, Borah Foundation, (2017 – 2020)
o   University of Idaho, Non-tenure/tenure (NTT) Task Force, (2018 – 2019)
o   University of Idaho: Research Council, (2015-2018)
o   University of Idaho: Arts Committee, Chair (2013-2016)
o   University of Idaho: Inspiring Futures, *honorary faculty* (2013)
o   University of Idaho: Data Visualization Task Force (2013)
o   University of Idaho: Integrated Research and Innovation Center: *Presidential appointed* (2013-2016)
o   University of Idaho: Faculty Expert Group, University visualization spokesperson, (2013-2018)
o   University of Idaho: Building Affordable, Sustainable and Inspiring Communities, BASIC (2012)
o   University of Idaho: President's Engagement Day, (2011)
o   College of Art and Architecture: Graduate Committee, Chair (2019-current)
o   College of Art and Architecture: Academic Core Team, (2017-current)

- College of Art and Architecture: Search Committee, Chair VTD (1) FTE (2016)
- College of Engineering: Search Committee, Member CS (1) FTE (2016)
- College of Art and Architecture: Search Committee Member, VTD (1) FTE (2016)
- College of Art and Architecture: Search Committee Chair, VTD (1) FTE (2015)
- College of Art and Architecture: Search Committee Member, VTD (1) FTE (2013)
- College of Education: Search Committee Member, Director Technology Education (1) FTE (2013)
- College of Letters Arts and Social Sciences: Search Committee Member, Psychology (2) FTE (2012)
- College of Art and Architecture: Search Committee Member, Art & Design (1) FTE (2012)
- College of Art and Architecture: Search Committee Member, VTD (1) FTE (2012)
- College of Art and Architecture: Bylaws (2011-2013, 2016-2019)
- College of Art and Architecture: Speakers Program (2008-2012)
- College of Art and Architecture: Faculty Facilities, Integration (summer 2011)
- College of Art and Architecture: Design Week Committee Member (2007-2010)
- College of Art and Architecture: Chair, CAA Foundations Committee, (2007-2009)
- Virtual Technology and Design Scholarship Committee, (2016-current)
- Virtual Technology and Design: Second Year Review Committee, (2010-current)
- Virtual Technology and Design: Lectures Committee (September 2007 – 2012)
- Virtual Technology and Design: Curriculum Committee (2007-current)
- Virtual Technology and Design: Third Year Review Committee, (2007-current)

Editorial Review Board Member:
- Science Publishing Group (*International): Mathematics and Computer Science*, Editorial Board Member (2019-current).