

## DAVID L. FERRO

Dean, College of Engineering, Applied Science & Technology  
Faculty, Computer Science - School of Computing  
Weber State University  
1447 Edvalson Street Dept 1801  
Ogden, UT 84408-1801  
Phone: +1 (801) 626-6303  
Fax: +1 (801) 626-6987  
dferro@weber.edu

### EDUCATION

2001	Ph.D., Science and Technology Studies, Center for Interdisciplinary Studies, Virginia Tech, VA
1995	MS, Science and Technology Studies, Center for Interdisciplinary Studies, Virginia Tech, VA
1984	BS, Computer Science, University of Lowell, MA

### ACADEMIC POSITIONS

2011-present	Dean, Engineering, Applied Science & Technology, Weber State University, Ogden, UT
2016-present	Full Professor, Computer Science, Weber State University, Ogden, UT
2011	Visiting Professor at Shanghai Normal University, Shanghai, China
2007-2016	Associate Professor, Computer Science, Weber State University, Ogden, UT
2007	Visiting Professor at the Computer-Human Interaction Unit of the Department of Computer Science at the University of Tampere, Tampere, Finland.
2001-2007	Assistant Professor, Department of Computer Science, Weber State University, Ogden, UT
1998	Instructor, Department of English, Virginia Tech, Blacksburg, VA. With James Collier: built and co-taught online English 3764.
1996-1998	Visiting Research Scholar at the University of Pennsylvania Center for the History and Sociology of Science, Philadelphia, PA
1994 – 1995	Reference Librarian, Newman Library, Virginia Tech, Blacksburg, VA.
1992 – 1995	Graduate Assistant, Department of Sociology, Virginia Tech, Blacksburg, VA.

### BOOK PUBLICATIONS

2020	Swedin, Eric and David L. Ferro, <i>Thinking Machines: A Biography of the Computer</i> . Westport, CT: Greenwood Press. (Under contract, forthcoming)
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- 2011 Ferro, David L. and Eric Swedin (eds), *Science Fiction and Computing: Essays on Interlinked Domains*. Baltimore: McFarland Publishing, Jefferson, North Carolina.
- 2010 Anderson, Greg, David L. Ferro, and Robert Hilton, *Connecting with Computer Science, Second Edition*. Boston: Thomson Course Technologies.
- 2007 Swedin, Eric and David L. Ferro, *Computers, The Life Story of a Technology*. Baltimore MD: Johns Hopkins University Press (2005, reissue as Trade paperback).
- 2005 Anderson, Greg, David L. Ferro, and Robert Hilton, *Connecting with Computer Science*. Boston: Thomson Course Technologies.
- 2005 Swedin, Eric and David L. Ferro, *Computers, The Life Story of a Technology*. Westport, CT: Greenwood Press.  
 Reviewed in *MBR Bookwatch* 4: 7 (July 2005).  
 Reviewed in *SciTech Books News* (September 2005).  
 Reviewed in *Choice* (November 2005). "Highly recommended."  
 Noted in *IEEE Annals of the History of Computing* 27:4 (Oct-Dec, 2005), 87.  
 Reviewed in *Communications Booknotes Quarterly* 37:2 (Spring 2006), 105.

## ARTICLE PUBLICATIONS

- 2015 Swedin, Eric G and David L. Ferro, "Murray Leinster and 'A Logic Named Joe'," *Literary Criticism* (Gale, 2015). Reprint of chapter in David L. Ferro and Eric G. Swedin, editors, *Science Fiction and Computing: Essays on Interlinked Domains* (McFarland, 2011).
- 2013 Swedin, Eric G and David L. Ferro, "Connections: Networking Computers Together," in Tessa Joseph-Nicholas, editor, *Introduction to Digital Culture: Living and Thinking in an Information Age* (Cognella, 2013). Reprint of chapter in Eric G. Swedin and David L. Ferro, *Computers: The Life Story of a Technology* (Greenwood Press, 2005).
- 2011 Ferro, David L. and Eric G. Swedin. "Rebooting 'A Logic Named Joe': Exploring the Multiple Influences of a Strangely Predictive Mid-1940s Short Story," in McFarland Publishing Volume *Science Fiction and the Prediction of the Future*, by Gary Westfahl, Wong Kin Yuen, and Amy Chan Kit Sze (eds).
- 2009 Eisenhauer, Joseph G., Doris Geide-Stevenson, and David L. Ferro. "Experimental Estimates of Taxpayer Ethics" in *Review of Social Economy*, Sept. 2009.
- 2009 Ferro, David L. "Computerfiction: 'A Logic Named Joe' as Catalyst for a Cross-cultural Initial Investigation into the Importance of Science Fiction in the Historical Development of Computing." *In History of Nordic Computing II Conference Proceedings*.
- 2008 R  ih  , Kari-Jouko, Saila Ovaska and David Ferro. "Observations on Using Clickers for Peer Evaluation." In Carlo Giovannella, Paula Kotze, and William Wong (Eds), *Architecting the Future – Proceedings of HCIED 2008, Annual International Conference of HCI Educators*, Rome, Italy, April 2008, 127-134. Published in the *Magazine of Interaction Design and*

*Architecture(s) II-III: 3&4*, Winter 2007-Spring 2008. Interaction Design & Architecture(s) IxD&A, Scuola IaD, Università di Roma Tor Vergata, Italy.

- 2003 Swedin, Eric and David L. Ferro. "Internet." *Encyclopedia of 20<sup>th</sup> Century Technology*. London: Fitzroy Dearborn Publishers.
- 2002 Oviatt, Sharon, Phil Cohen, Lizhong Wu, Lisbeth Duncan, Bernhard Suhm, Josh Bers, Thomas Holzman, Terry Winograd, James Landay, Jim Larson, and David Ferro. "Designing the User Interface for Multimodal Speech and Gesture Applications: State-of-the-Art Systems and Research Directions for 2000 and Beyond," in John M. Carroll (ed.) *Human-Computer Interaction in the New Millennium*, pp. 419-456. Reading, MA: Addison-Wesley.
- 2000 Oviatt, Sharon, Phil Cohen, Lizhong Wu, Lisbeth Duncan, Bernhard Suhm, Josh Bers, Thomas Holzman, Terry Winograd, James Landay, Jim Larson, and David Ferro. "Designing the User Interface for Multimodal Speech and Pen-Based Gesture Applications: State-of-the-Art Systems and Future Research Directions." *Human-Computer Interaction*, 15(4), pp. 263-322.
- 1999 Larson, J. A., S. L. Oviatt and D. Ferro. "Designing the User Interface for Pen and Speech Applications," *Proceedings: CHI '99 Workshop, Conference on Human Factors in Computing*, Philadelphia, PA.

## OTHER PUBLICATIONS

2016-present Monthly 750-word column in the Ogden *Standard Examiner*. Currently have written 37 columns.

- 2016 Book Review: Joshua Raulerson, *Singularities: Technoculture, Transhumanism, and Science Fiction in the 21st Century*. Liverpool, UK: Liverpool University Press, 2013. Reviewed in *Technology & Culture*, January 2016. Vol. 57. p.285-286.
- 2012 Book Review: Philippe Breton. *The Culture of the Internet and the Internet as Cult: Social Fears and Religious Fantasies*. By Philippe Breton. Duluth, Minn.: Litwin Books, 2011. Pp. xv+169. Reviewed in *Technology & Culture*, July 2012. Vol. 53. p.747-749.

## SELECTED PRESENTATIONS

- 2011 Ferro, David L. and Eric Swedin. "Speculative Fiction as a Component of STEM Recruitment," Society for the History of Technology (SHOT) and Society for the Study of Science in Society Special Interest Groups Prometheans and International Network for Engineering Studies Joint Workshop, November 2, 2011.
- 2010 Ferro, David L. (Chair) "Examining the Interaction of Speculative Literature and Computing: Toward a Research Agenda," Society for the History of Technology (SHOT) Special Interest Group on Computer Information Systems (SIGCIS), October 3, 2010.
- 2007 Ferro, David L. (Keynote Speech) "My Country or Yours? The Promise and Unknowns of Community Source," Sixth International Conference on Perspectives on Business Informatics Research (BIR), University of Tampere, Finland, October 2, 2007.

- 2007 Ferro, David L. "Science Fiction and Computing Development in U.S. and Finland," History of Nordic Computing 2nd (HiNC2), August 21-23, Turku, Finland. Subsequently invited to speak at University of Turku, Finland, and University of Pori, Finland, fall 2007.
- 2006 Ferro, David L. "Missing the Future? Murray Leinster, Vernor Vinge, and Science Fiction's Prescient and Less-Than-Prescient Views of Open Source, Networks, and Personal Computers," Society for Social Studies of Science Annual Meeting. November 1-5, Vancouver, B.C., Canada.
- 2005 Ferro, David L. "Computer History Museums." First Annual WSU Faculty Research Forum, Weber State University, Ogden, UT.
- 2003 Ferro, David L. (Chair). "Addressing Gender in Online Computer Science Course Instruction." Birds of a Feather Session, ACM SIGCSE Annual Conference, Reno, NV.
- 1999 Larson, J.A., S. L. Oviatt, and D. Ferro. "Designing the User Interface for Pen and Speech Applications." ACM SIGCHI Annual Conference Workshop and Proceedings Abstract. CHI '99 Workshop, Conference on Human Factors in Computing, Philadelphia, PA.
- 1999 Ferro, David L. "Natural Bridge: The Use of Voice Recognition and Natural Language in the Aphasia Therapy System." Center for Interdisciplinary Studies Thursday Lecture Series, Virginia Tech, Blacksburg, VA.
- 1997 Ferro, David L. "Doing Ethnography from Deep Within: A High Tech Case." Society for Social Studies of Science (4S) Annual Meeting, Tucson, AZ.
- 1996 Ferro, David L. "The Commodification of Science through the Colonial American Newspaper." Social Studies in History Association (SSHA) Conference, New Orleans, LA.
- 1996 Ferro, David L. (Facilitator), "Information Technology" session. Practicing Policy Workshop, Virginia Tech, Blacksburg, VA.
- 1995 Ferro, David L. (and Chair), "Coming of Age in the Multimedia Lab," Society for Social Studies of Science (4S) Annual Meeting, Charlottesville, VA.
- 1995 Ferro, David L. (Chair), "Information Technology in Environmental Engineering." Virginia Tech Science Policy Discussion Group Annual Conference, Blacksburg, VA.
- 1993 Ferro, David L. (Chair), "Information Networks." Society for Social Studies of Science (4S) Annual Meeting, West Lafayette, IN.
- 1993 Ferro, David L., "The Social Construction of Science in Colonial America: the Popularization of Science Through Franklin's Pennsylvania Gazette." Inquiries in Social Construction Conference, Durham, NH.

## **PERSONAL RESEARCH GRANTS**

- 2010 USTAR (Utah Science, Technology, and Research Initiative) ‘Hypersphere Project’ with Ryan Thomas and Craig Gundy, \$20,000.
- 2010 RS&PG Archival Research, \$2,500.
- 2010 RS&PG Hemingway (Jordan Hamson-Utley, principal), \$5,993.
- 2010 Teaching and Learning Grant, \$500
- 2009 Honors-Eccles Fellowship, ~\$10,000.
- 2007 RS&PG Hemingway Weber Writes Grant, ~\$4,000 (4 credit course reduction)
- 2006 Special Grant from CIO Don Gardiner for Information Technology Display, \$4,000.
- 2006 RS&PG Hemingway Grant: Research at Syracuse University Archives, \$4,200.
- 2005 ARCC Dee Family Grant: Information Technology Display, \$4,000.
- 2004 ARCC Dee Family Grant: Information Technology Display, \$6,000.
- 2004 RS&PG Hemingway Grant: Research at Computer History Museums, \$1,200.
- 2003 ARCC Dee Family Grant: Smart Detection Agents, \$3,000.
- 2002 ARCC Dee Family Grant: Screen Recorder for Tutorials, \$1,192.

## **HONORS AND AWARDS**

- 2015 Hemingway Faculty Excellence/Collaborative award for WSU PREP
- 2011 Nominated, Crystal Crest Award for Master Teacher
- 2010 Weber State University Faculty Governance Award.
- 2008 Utah System of Higher Education (USHE) Faculty Award for Technology in Pedagogy.
- 2008 Nominated, John A. Lindquist Award for Civic Engagement.
- 2006 Nominated, Crystal Crest Award for Master Teacher.
- 2003 First place for COAST CS2350 Students for WSU Undergraduate Research Symposium.

## **PROFESSIONAL SERVICE**

- 2014-present Member of board of directors for Utah Advanced Materials and Manufacturing Initiative
- 2010-2014 Member of board of directors for Ferro, Gundy & Thomas.
- 2009 Tenure Review for Dr. David Toomey, University of Massachusetts, Amherst, MA.
- 2009 Tenure Review for Dr. Thomas Haigh, University of Wisconsin, Milwaukee, School of Information Studies, Milwaukee, WI.
- 2007 Events & Sightings write-up for the IEEE Annals of the History of Computing (October-December 2007)

## **SIGNIFICANT UNIVERSITY SERVICE**

### *Weber State University*

- 2018-present Dean’s Liaison, Classroom Scheduling Software Implementation Team
- 2015-present Member, University Risk Management Committee
- 2014-present Chair, University Scholarship Committee
- 2014-present Member Information Security Task Force
- 2012-present Co-Chair, IT Academic Portfolio
- 2012 Member, Alumni Director Search Committee
- 2011-2015 Dean Liaison, University Scholarship Committee
- 2011-2015 Dean Liaison, Salary and Benefits Committee
- 2011-present Member, Dean’s Council
- 2011 Member of Dean Search Committee, College of Science

2010-2013	Student Fee Recommendation Committee (SFRC)
2010	Computer Science Department Peer Review Committee
2009-2014	Community-Based Learning (CBL) Curriculum Committee
2009-2011	CIVITAS Steering Committee
2009-2011	Member of Student Affairs Faculty Advisory Committee
2008-2010	Chair & President, Faculty Senate
2008-2010	Ad hoc Member, WSU Board of Trustees and Academic Subcommittee
2008-2010	Member, WSU Alumni Association Board of Directors,
2008-2010	Member, WSU Strategic Planning Council
2006-2009	Liaison, Academic Resources and Computer Committee, Faculty Senate
2009-2010	Liaison, Ecological Initiatives Committee, Faculty Senate
2009-2010	Member, Board of Trustees Academic Subcommittee
2008-2011	Member, Salary Committee, Faculty Senate
2008-2011	Member, ITAC Information Technology Advisory Council
2008-present	Member, IT Security Task Force
2008-2011	Chair, COAST College Ranking Tenure Review Committee
2008-2010	Member, Dean's Council
2007-present	Co-chair, ITintheUniversity Colloquium Series
2006-2010	Member, Executive Committee, Faculty Senate
2005-2006	Chair, IT investigative committee
2004-2010	Senator, Faculty Senate
2003-2007	Member, Information Technology Council
2003-2006	Chair, Academic Resources and Computing Committee
2002-2003	Member, COAST College Curriculum Committee
2002-2006	Member, WebCT/Vista technology transfer project team
2002-2006	Member, WebCT/Vista Course Evaluation project team

## **OTHER SERVICE**

### *Weber State University*

- . Assisted/Coordinated/Coached/Presented in various COAST/EAST outreach activities, FLL, FTC, Science Olympiad, Parent/Daughter Engineering, Summer PREP, more, 2011-present.
- . Led visiting students to COAST from WSU Children's School, Evergreen Montessori, Shadow Valley Elementary, yearly since 2005.
- . Digital History Archive Timeline created and installed, Ogden & Davis, fall 2012.
- . Digital History Archive (DHA) re-installed at Davis in fall of 2010.
- . Initiated two students in Visual Arts to work on DHA for capstone projects (ongoing).
- . Visiting member for state-wide selection of a course management system (CMS), meeting, spring 2010, University of Utah.
- . Real Men Can Cook, September 2004 – 2012.
- . Assisted Economics Department with students from CS2350 and 2450 class, fall 2010, spring 2011.
- . Organized Honors 3900 class trip to Seattle, fall 2010.
- . Member of BIS capstone for James Alexander, spring 2009.
- . Speaker at Student Senate, "How Faculty Governance Works," 2008, 2009.
- . Hosted Student Government Executive Committee, fall and spring 2008, 2009.
- . Pilot participant for Moodle Course Management System, summer, fall, spring of 2009 – 2011.

## SELECTED GUEST LECTURES AND SPEAKING ENGAGEMENTS

### *Weber State University*

- . Presenter (with Eric Swedin), "Science Fiction and Computing, Digital Humanities Brownbag, 2016
- . Speaker, National Defense Industrial Association, WSU, 2015
- . Panelist, Faculty Forum, "MOOCS and other 'threats' to higher education", April, 2013.
- . Speaker, "Proto-computer" at WSU Greek Festival, Sept 22, 2011.
- . Presenter (with Eric Swedin), "The Intersection of Science, Fiction, and Politics at *The New York Times* "Times Talk," fall 2010.
- . Panelist in Faculty Development Session "The Future of the Book", spring 2010.
- . Honors Eccles Fellows presentation, Feb. 2010.
- . Guest Lecture, Intercultural Communication Class in Dept. of Communications, September 7, 2010.
- . Guest Lectures, History of Science in Department of History, Feb. 2010, 2011.
- . Speaker on Martin Luther King round table discussion on MLK day, 2009.
- . Panelist at Weber Reads, "Frankenstein and the Information Age: Technology Out of Control?" (with Luke Fernandez, Judy King, and Jonathan Karras), February, 2009.
- . Speaker at WSU Technology Forum, spring 2009: "Using Clickers in the classroom."
- . Speaker, "Antikythera Device" at WSU Greek Festival, Sept.15, 2009.
- . Presenter (with Luke Fernandez and Mark Stevenson) on electronic mediated education at *The New York Times* "Times Talk," fall 2009.
- . Speaker at the University Breakfast, fall 2008 and 2009.
- . Speaker at the New Faculty Retreat, fall 2008 and 2009.
- . Speaker at the opening session for Adjunct Faculty Retreat, winter 2009.
- . Panelist, "The Death of the University" for the Teaching and Learning Forum. November, 2009.
- . Presenter at WSU Faculty Forum on Second Life, Oct. 2009 (with Kami Hansen).
- . Presenter at WSU Faculty Forum on "Incentivizing Scientists through SF," spring 2006.

### *Other speaking engagements*

- . Speaker, FIRST Robotics Competition, Maverick Center, March 2017 and 2018.
- . Speaker/Coordinator, Western Pathways panel of Engineering Education, SLC, June 2018.
- . Presenter and Panel Participant, numerous sessions, "Life, The Universe, and Everything, Conference on Science Fiction". BYU, February, 2006 – 2012.
- . Panelist at WestCon (with Eric Swedin), spring 2009.

## TEACHING EXPERIENCE

### *Weber State University*

CS 1020: Introduction to computing  
CS 1030: Introduction to computing  
CS 1030 (online): Introduction to computing  
CS 1400: Introduction to programming, C & Unix  
CS 2750: Object Oriented Analysis and Design  
CS 2450: Software Engineering I  
CS 2350: Internet Programming  
CS 3350: Internet Programming  
CS 3350 (online): Internet Programming  
Math 1140: Discrete Mathematics  
Math 1630: Discrete Mathematics  
Math 1630 (online): Discrete Mathematics

CS 4830: (variable title) Social Implications of Computing  
CS 4830: (variable title) The User Experience  
History 4810: History of Technology  
IST 1100: Wired Society  
Honors 3900: Science Fiction and History of Science and Technology  
Honors 2120: Great Ideas of the West: The Computer Age  
Honors 1700: The Social History of World War II  
Honors 1520: Military History of World War II  
Honors 2920: Reading the Newspaper, Sp'18

## **PROFESSIONAL WORK EXPERIENCE IN INDUSTRY**

May 2000 – August 2001

Senior Manager of e-Business Operations, IOMEGA, Roy, UT.

Managed seven person department that conducted email, banner, newsletter, and competitive price marketing campaigns; created and coded content for Iomega.com; managed 4.5 million registration database; analyzed click through, purchasing usability and demographic behavior. Redesigning Iomega.com as international. Operations lead in Blue Martini platform transition. Managed a 3.6 million dollar budget. Coded in HTML, Javascript, Java.

June 1999 – July 2000

Co-Founder and VP of Product Management, EXPERTSERVICES.COM, Wilmington, DE.

Managed projects using IIS, ActiveX, Javascript, MS SQL and Apache, Perl, Java, Oracle. Conducted market, competition and usability research and analysis; developed partnerships; managed QA; co-wrote business plans for b2c and b2b web products.

November 1995 – June 2000

Principle/Staff Engineer UNISYS CORPORATION, Paoli, PA.

Developed tools for integrating voice recognition, natural language processing, telephony, and internet. Developed patent submitted process for voice-integrated applications. On-partner-site project leader for jointly developed voice application. Lead developer and system manager for NIH funded research studying aphasia patients. Designed and conducted HCI analysis. Created documentation and taught course material. Worked with Java, C++, Visual Basic, Prolog, Oracle on NT, Sun, Periphonics, Dialogic equipment and integrated recognizers including L&H, AT&T, IBM, Dragon, Philips, Nuance.

September 1990 – December 1991

Software Consultant, TECHNICAL OUTREACH GROUP, Melrose, MA.

Assisted non-profit organizations in software system design, procurement, development and integration; an outgrowth of the philanthropic group I founded at Lotus Development.

March 1989 – September 1990

Programmer, LOTUS DEVELOPMENT, Cambridge, MA.

Project leader Developing Electronic Update Systems for financial databases on CD ROM incorporating VAX's and Novell Networked PC's. Drafted operation procedures and programmer documentation for a Stocks and Bonds database. Worked in Hungarian C and proprietary object-oriented database language.



December 1986 - March 1989

Developer/Programmer, DRI/MCGRAW-HILL, Lexington, MA

Administered and enhanced Interleaf/Publishing System on SUN/UNIX Network. Designed and developed econometric forecasting products and utilities. Developed customer applications and related documentation. Created course material and provided in-house instruction on product use. Worked in C, database, communication, and econometric modeling products, on the PC and Burroughs mainframe.

February 1985 - June 1986

Programmer/Developer, COMPUTER IDENTICS, Canton, MA.

Designed integrated programs in C and databases for 68000 based systems. Developed turnkey applications and was a customer liaison for company bar code systems. Developed and extensively documented a language/compiler in C and assembler on UNIX system and ported to PC.

June 1984 - January 1985

Programmer/Developer, AOG SYSTEMS, Littleton, MA.

Developed prototype expert system product in Unify database environment. Co-managed Unix operating system. Wrote documentation for database utilities. Worked on Dual 83/80, CP/M, Macintosh, and Xerox systems in C language.

May 1983 – July 1984

Programmer/Consultant, HAYDEN SOFTWARE, Lowell, MA.

Created educational game software. Worked with graphics, sound, and systems level programming in 6502 assembly and basic on Apple, Atari, and Commodore computers.

## **COMMUNITY SERVICE**

2018-present Member, School Board of DaVinci Academy K-12

2011 Principal, Computer Science web page review.

2011 Moderator, Utah Council for Undergraduate Research, Feb 18, 2011.

2011 CS2450 service learning experience, Quality Control and UI design for Ghana Project.

2011 CS2450 service learning experience, Quality Control for ChiTester smart phone project.

2011 CS2450 service learning experience, Design for WildEssentials.org project.

2011 CS2450 service learning experience, Design for ChiTester FAX project.

2011 Contributor, Digital History Archive artifacts for Union Building 50<sup>th</sup> anniversary.

2010-2012 Initiated a Science, Technology, and Story camp for grammar school level students.

2010 CS2350 service learning experience, Web Development for Community Involvement Center.

2010 CS2350 service learning experience, committee selection prototype for Faculty Senate.

2010 CS2350 service learning experience, Faculty Senate voting prototype.

2006-2012 Annual grammar school visit to Computer Science.

2005-2006 Annual Children's School visit to Computer Science.

2008-2010 Participant, Real Men Can Cook. Your Community Connection (YCC) charity event.

2005 Consultant for Ogden Treehouse Museum Web Site.

2003, 2004 Service Learning class project, Implementation of Utah Campus Compact Web Site.

2002-present Director, Implementation of WSU Digital History Archive.

2000-present Utah Junior and Senior High School Science Fair Judge.

## **PROFESSIONAL ORGANIZATIONS**

- . Association for Computing Machinery (ACM) – Special Interest Group on Computer Human Interfaces (SIGCHI); Special Interest Group on Computer Science Educators (SIGCSE)

## **COLLEGE FUNDRAISING THROUGH DEVELOPMENT**

2011	\$428,740
2012	\$409,810
2013	\$5,447,936
2014	\$602,444
2015	\$958,189
2016	\$15,986,345
2017	\$1,874,186
2018	\$3,431,433
2019(to date)	\$1,501,495
Total	\$30,640,575

## **SELECTED COLLEGE SUCCESSES SINCE 2011**

### **Centers**

- . Created Alan E. Hall Center for Sales Excellence – 3M gift
- . Utilized Hall Center to hire PhDs for Sales, raise more funding, and increase academics in Sales
- . Created Wadman Center in Construction Management – 2M gift
- . Acquired UCAID consulting, brought to college, and rebranded as Concept Center

### **Outreach**

- . Instituted WSU PREP, 7-week summer program for middle school kids
- . Instituted diversity outreach: Parent-Daughter Engineering, Girls Go Digital, Girls Welding
- . Brought FIRST Tech Challenge – lower cost, team-oriented, 7-12 grade robot contest - to Utah
- . Became state facilitator for FIRST Lego League, FIRST Lego League Jr., and FIRST Tech Challenge
- . Coordinated with HAFB to run, on campus, Mission to Mars and SeaPerch outreach programs

### **International**

- . Joined EAST to international Grand Challenges in Engineering program
- . Created exchange relationships with Metropolia University, Helsinki, Finland, Seoul University, Seoul, S. Korea, Chang Mai University, Chang Mai, Thailand, Pamukkele University, Pamukkele, Turkey

### **Hiring/Diversity**

- . Hired 11 women into Engineering and Computer Science
- . Hired 11 people of color into Engineering and Computer Science
- . Hired four advisors to increase student retention and throughput
- . Created Associate Dean position, elevated Allyson Saunders to Associate Dean
- . Elevated Brian Rague to second Associate Dean
- . Began conversation about diversity in college: created diversity committee, brought anthropologist from Harvey Mudd, began initiatives

### **Development**

- . Created college-level Dean's Advisory Board

### **Community/Interdisciplinary**

- . Raised funding and created Peterson Speaker Series
- . Created annual LingoFest conference for Humanities, Social Science, and voice technology
- . Wrote (writing) monthly column for Standard Examiner

- . Created ETC2001 – Engineering Culture, Social Science General Education class

### **Curriculum/Students**

- . Removed General Education category from NTM1700
- . Created Center for Computer Literacy and micro-modules for core computer literacy (in place of NTM1700)
- . Increased online instruction in Computer Science (AAS) and Sales (AAS and BS)
- . Created Product Design and Development program from Design Engineering Technology
- . Created Web and User Experience program
- . Created Mechanical Engineering program
- . Created Manufacturing Systems Engineering Program
- . Created MS in Computer Engineering (joint degree between EE and CS)
- . Created MS in Electrical and Computer Engineering
- . Created MS in Computer Science
- . Collaborated with Math Department to create applied calculus courses
- . Tripled the number of AAS (Associates of Applied Science) degrees by hardwiring the degree on way to BS degree in Engineering Technology and Computer Science. This boosted graduation numbers for our state funding metric.
- . Attained 67% increase in student majors in college overall, 300% in EE, 147% in CS

### **Accreditation**

- . Accredited through ABET the Electrical Engineering program
- . Accredited through ABET the Computer Science program
- . Began accreditation through ABET for Network Systems and Construction Management Technology

### **Organization**

- . Created new department - Construction and Building Sciences – combining Interior Design, Construction Management, Facilities Management, Building Science
- . Created new department – School of Computing – combining Computer Science, Network Technology, Web and User Experience
- . Eliminated manufacturer-specific programs in Automotive and replaced with single comprehensive program
- . Taught out last few Business Education majors
- . Wrote strategic plans for college and all departments
- . Overhauled college website and marketing plans

### **Student Projects**

- . Oversaw the creation of over 100 student capstone projects
- . Created numerous domestic projects. Examples at Hill AFB and Catholic Community Services
- . Created numerous international projects. Examples in Ghana, Thailand, Fiji

### **Monetary**

- . Raised lab fees to cover costs – but not enough to lose enrollments
- . Raised over 1.8M in ongoing Engineering Initiative funding from state (requires university match)
- . Raised over 1M in ongoing Strategic Workforce Initiative funding from state
- . Attained almost 3M in funding from Perkins
- . Increased number of internal and external grants coming into college
- . Increased ongoing budget by ~100%

### **Buildings**

- . Raised private and public funding for three building projects: new Computer and Automotive Engineering Building in Davis campus, new Noorda Building on Ogden campus replacing 1957 Technical Education Building, and refurbishment of Engineering Technology Building on Ogden campus.