Hannah Beth Love

Team Scientist

Website: www.teamdivergentscience.com | Phone: (785) 840-5335 | Email: Teamdivergentscience@gmail.com **EDUCATION** Colorado State University (CSU), Fort Collins, Colorado Postdoc, CSU Science of Team Science Team 2019 Advisor: Dr. Ellen Fisher, Assistant Vice President for Research and Strategic Initiatives Postdoc Advisory Team: Dr. Susan VandeWoude, Microbiology, Immunology and Pathology; Dr. Kevin Crooks, Department of Fish, Wildlife, and Conservation Biology; Dr. Ellie Dickmann, Sociology; and Dr. Bailey Fosdick, Statistics Doctor of Philosophy, Sociology, College of Liberal Arts and Sciences, GPA 3.935 2019 • Dissertation Title: "The Social Process of Knowledge Creation in Science" • Comprehensive Exams: Social Change 2018, Theory 2017, and Methods 2016 • Advisor: Dr. Jeni Cross, Sociology Master of Arts, Sociology, College of Liberal Arts and Sciences, GPA 3.74 2015 • Thesis Title: "Long-term Learning Outcomes of Sociology Capstone Courses at Colorado State University" • Thesis research influenced CSU to change rubric for the institutional Five-Year Review process • Advisor: Dr. Jeni Cross, Sociology Master of Science, Student Affairs in Higher Education, GPA 3.94 2011 • Completed Mater's Portfolio Project • Advisor: Dr. Oscar Felix, Executive Director of the Access Center University of Kansas (KU), Lawrence, Kansas Bachelor of Arts in Sociology, Major GPA: 3.93, Cumulative GPA: 3.85 with Distinction 2008 • Student Body President 2007-2008 • Completion of the University Honors Program AREAS OF RESEARCH INTEREST • Science of Team Science (SciTS) **Knowledge Integration** • Social Network Analysis Sociology of Education • Community-Based Research (CBR) Sociology of Teaching and Learning HIGHLIGHED SKILLS • Professional Facilitator **Program Evaluation** Team Science Consultant Project Manager Team Science Trainer Research Specialist

TEAM SCIENCE KEY EXPERIENCES

Facilitation & Consulting Experience

Co-Founder, Divergent Science LLC, www.teamdivergentscience.com

2019-Present

- Team science consultants that empower scientific teams to create new knowledge and solve complex global problems.
- Offer expertise in convergence research practices for NSF grants, and training for NIH grants.
- We specialize in:
 - o Putting research into practice (team science trainings)
 - o Creating agendas for team retreats
 - Facilitating knowledge fusion workshops
 - o Building team charters and visions

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Founder, Facilitation Guild, Fort Collins, Colorado

2020-Present

• Created a space for professional facilitators to talk about best practices, receive additional training, and share resources

• Promoted the use of facilitation to work through complex problems

Team Science Graduate Research Assistant, Colorado Clinical Translational Science Institute (CCTSI), Clinical Translational Science Award (CTSA), *Anschutz Medical Campus* 2017-2019

- Initiated a study about the role of graduate students on interdisciplinary teams at the Anschutz Medical Campus
- Created and conducted a social network study about the collaboration patterns of the CTSA executive committee
- Worked with a team to design a team science education rubric for graduate students using team science literature and best practices
- Facilitated team science trainings for various audiences in the CTSA including: TL1 program, Pre and postdocs, faculty, nurses, and more

Team Science Specialist and Research Consultant, Institute for Research in the Social Sciences (IRISS), *CSU* 2018-2020

- Supervised graduate students in numerous social science and team science research projects using social network analysis
- Provided quality control, created scopes of work, and conducted research for team science clients,
- Designed and administered social network and survey questions to capture the team development processes and team readiness
- Facilitated science of team science trainings for NSF and NIH teams

Science of Team Science (SciTS) Evaluation and Research

Team Science Postdoc, CSU Science of Team Science Team, CSU

2019-2020

- Wrote manuscripts for publication from SciTS research in peer-reviewed journals with a
 diverse team that included: statisticians, sociologists, a chemist, a microbiologist and a
 conservation biologist
- Analyzed longitudinal data collected from 2015-2020 about scientific teams
- Created and practiced using authorships agreements to mitigate conflicts, manage data, and develop best practices for interdisciplinary writing teams

Team Science Graduate Research Assistant, Interdisciplinary Team Science Teams: Program Evaluation of Catalyst for Innovative Partnerships (CIP) Teams, *CSU* 2015-2019

- Facilitated dialogues with team science teams to help them develop visions, achieve the goals, and receive external funding from NIH, NSF, DARPA, KECK, USDA and other funding agencies
- Created a team science training for trainees, principle investigators (PIs), and faculty based on SciTS research
- Designed and administered a longitudinal mixed-methods process evaluation to 25 transdisciplinary research teams
- Provided quick turn-around data and feedback based on SciTS data collection and research to intervene and improve team performance
- Lobbied successfully for a new professional development program (Pre-CIP) aimed at supporting the early formation of transdisciplinary teams
- Facilitated training and workshops based on our data collection to teach effective teaming strategies
- Created a social network survey to capture team development processes and team readiness

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Team Project Management

Project Manager, Science of Team Science Team (SciTS), CSU

2017-2020

- Prepared presentations for dissemination of our research for the Office of the Vice President for Research Executive Committee, College Research Associate Deans, Council of Deans, and Faculty Council
- Assisted with budget proposals
- Organized regular meetings
- Facilitated workshops, team trainings, and team science boot camps on SciTS

Project Manager, School of Advanced Material Discovery, *CSU*

2016-2018

- Supported the creation of an interdisciplinary graduate degree program at CSU
- Applied team science knowledge to write the new interdisciplinary curriculum
- Co-created the School of Advanced Materials Discovery program proposal and budget for approval by university committees including: University Curriculum Committee, Faculty Council, Council of Deans, Office of the Provost, and Board of Governors
- Navigated the curriculum through the university approval processes
- Assisted in writing the MOU's for the faculty, department chairs, and the program
- Oversaw admissions process for faculty and graduate students, social media, website development and recruitment materials
- Coordinated admissions process for faculty section and student success
- Designed the program evaluation to assess learning outcomes and program objectives
- Facilitated proposals for Advancement
- Developed budgets and budget projections
- Co-taught first professional development course for Materials Science Engineering MSE 793

Project Manager, Polymers Catalyst for Innovative Partnership Team Science, CSU

2016-2017

- Project managed team proposal for a \$22 Million NSF MRSEC Proposal
- Managed \$200,000 budget
- Prepared materials for quarterly updates to the Office of the Vice President for Research
- Organized regular meetings for the team and the interdisciplinary research groups
- Engaged the team in best practices for team science

Research Project Coordinator, Sociology 331 Community Development and Dynamics

2011

- Coordinated community-based research project
- Collaborated with community partners to conduct and apply research
- Facilitated classes on qualitative methods

Science of Team Science Service

Co-Chair, Special Interest Group: Incubator Spaces for Team Science	2019-2021
Member, Membership Committee for International Network Science of Team Science	2018-2021
Chair, Newcomers groups, International Network Science of Team Science	2019-Present

Science of Team Science Awards

2019	"Successful Process Evaluation Provides Insight into Team Development and Goal
	Attainment: The Science of Team Science." Science of Team Science (SciTS) Poster
	Presentation Award, Science of Team Science Conference, Lansing, MI
2018	"The Central Role of Women in the Development Process and Outcomes of
	Scientific Teams." Science of Team Science (SciTS) Meritorious Contribution Award
	for Emerging Scholar Poster Presentation, Science of Team Science Conference,
	Galveston, TX
2018	"How the Engagement of Scientific Interdisciplinary Teams Creates Social

Change." Social Change Scholarship, CSU \$1,000

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2017 "Mentoring on Interdisciplinary Research Teams." Undergraduate Choice Award, CSU, \$125 "Including Graduate Students in Interdisciplinary Research." Highest achievement 2016 in the College of Liberal Arts and Sciences, CSU, \$500 Office of the Vice President Graduate Research Fellows Program, CSU, \$4000 2016 TEAM TRAIING AND FACILITATION EXPERIENCE 2020 Office of the Vice President for Research Fellows Program, CSU **Inclusive Health Collaborative and Street Dog Collation,** CSU Ocean Memory National Academies Keck Futures Initiatives (NAKFI), Virtual Facilitation 2019 Office of the Vice President for Research Fellows Program, CSU AeroBiome Discovery Network Team Facilitation, CSU University Southern California CTSA Team Science Training and Facilitation, University Southern California, Los Angeles, CA CTSA, TL1 Program: Team Oriented Training across the Translational Sciences Spectrum (TOTTS), University Colorado Denver Anschutz Medical Campus Sports Camp Leadership Training, Camp Lakeside, Scott City, Kansas NSF Ascaphus Tailed Frogs Team Training and Facilitation, CSU CCTSI Rehabilitation Science PhD Program, CTSA, University Colorado Denver Anschutz Medical Campus USDA Arbovirus Team Retreat, Colorado State University Mountain Campus Catalyst for Innovative Partnership Pre-CIP Team Science Kick-Off Team Training, CSU NSF Engineering Research Center (ERC) SHIELD Team Grant Workshop, CSU NSF Engineering Research Center (ERC) Grant Writing Workshop, CSU NSF Ecology and Evolution of Infectious Diseases (EEID) Interdisciplinary Team Retreat, Rocky Mountain National Park YMCA Camp 2018 NSF Engineering Research Center (ERC) SHIELD Team Grant Workshop, University California Davis CTSA, TL1 Program: Team Oriented Training across the Translational Sciences Spectrum (TOTTS), UC Denver Anschutz Medical Campus NSF Ecology and Evolution of Infectious Diseases (EEID) Interdisciplinary Team Retreat, CSU Mountain Campus Organization for Tropical Studies (OTS) Team Science and Diversity Training, Palo Verde Cosa Rica Science of Team Science Conference Moderator, Galveston, TX CTSA Clinical Translation Science Award One Health Alliance, CSU 2017 NSF Ecology and Evolution of Infectious Diseases (EEID) Interdisciplinary Team Retreat, CSU Mountain Campus Catalyst for Innovative Partnership Team Science Kick-Off Team Training, CSU Science of Team Science Conference Moderator, Tampa Florida B Sharp: An Arts Engagement Program, CSU World Café Facilitator, Sociology 460, Water Society and Environment, CSU 2016 Workshop: Building Effect Interdisciplinary Teams, Colorado State University NSF Ecology and Evolution of Infectious Diseases (EEID) Interdisciplinary Team Retreat, CSU Mountain Campus

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World Café Facilitator, Sociology 460, Water Society and Environment, *CSU*World Café Facilitator, Sociology 460, Population, Natural Resources, & Environment, *CSU*USDA Student Water Dialogues, *CSU*

2015

NSF Ecology and Evolution of Infectious Diseases (EEID) Interdisciplinary Team Retreat CSU Mountain Campus

USDA Student Water Dialogues Facilitation, CSU

World Café facilitator, Sociology 460, Water Society and Environment, CSU

Sports Camp Leadership Training, Camp Lakeside, Scott City, Kansas

USDA, Moving Forward on Ag Water Conservation in the Colorado River Basic with No Chico Brush, Glenwood Springs, CO

2014

USDA Water Policy Collaboration Facilitation Training for Graduate Students, CSU

2013

Colby Community College Volleyball Team Leadership Facilitation, *Colby, Kansas* **Sports Camp Leadership Training,** *Camp Lakeside, Scott City, Kansas*

2012

Developing Cultural Competency Skills, In-Service Facilitator, *Dodge City, Kansas* **Sports Camp Leadership Training,** *Camp Lakeside, Scott City, Kansas*

2010 & 2011

Resident Assistant (RA) Class Facilitator, CSU

PROGRAM EVALUATION

Extensive interdisciplinary research and program evaluation experience. All research listed was funded.

Team Science Specialist and Research Consultant, IRISS, CSU

2018-2019

- Supervised graduate students in numerous social science and team science research projects using social network analysis
- Designed and administered social network surveys and qualitative surveys to capture team the development process

Research Specialist, Institute for the Built Environment, CSU

2014-2019

- Provided survey expertise for the Platte River Power Authority Occupancy Survey
- Conducted a pre-post occupancy survey for the Fort Collins Utility Department to understand health, social well-being, and other impacts for employees when they moved into a LEED Certified Platinum building
- Administered an on-line survey for the City of Fort Collins Utility Department to learn about barriers to green building construction
- Conducted social network analysis for City of Fort Collins Social Sustainability Program
- Collaborated with teams of practitioners, Fort Collins employees, Fort Collins Utilities employees, researchers, and more to implement best practices for survey distribution
- Distributed surveys, analyzed data, wrote corresponding reports and compiled presentation
- Recommended policy solutions to more efficiently direct city and community resources to maximize services
- Supervised other graduate students in survey design, administration, and data analysis

Lead Researcher, College of Liberal Arts, Dean's Office, CSU

2017-2018

• Wrote and administered an on-line survey to understand long-term impacts of a liberal arts degree

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- Analyzed data for a presentation to all Dean's Communication Officers
- Presented results to the College of Liberal Arts Deans Office

Team Member, You@CSU Evaluation Team, CSU

2017-2018

• Designed a mixed-methods assessment as part of a transdisciplinary team to monitor the effectiveness of an on-line mental health resource for CSU students

Research Assistant, **Department of Construction Management**, CSU

2017

- Designed a coding scheme to measure student learning outcomes
- Coded study abroad service-learning reflections to understand student learning outcomes

Graduate Facilitation Assistant, **USDA Moving Forward on Ag Water Conservation in the Colorado River Basin, Colorado Water Institute,** *CSU*2014–201

- Facilitated dialogues with farmers and ranchers on the west slope of Colorado about agricultural water conservation
- Coordinated and facilitated dialogues with the State Engineers Office to clarify the term "Use it or Lose it" with the goal of developing more transparent water policy
- Facilitated dialogues with undergraduate students from diverse academic and cultural backgrounds i.e. farmers and environmentalists about agricultural water
- Facilitated a workshop to train graduate students on water conflict facilitation

Social Change Curriculum Designer, Parking & Transportation Services, CSU

2016

- Developed a curriculum for the 13 residence halls on campus
- Supervised workshops to encourage critical thinking about cost-of-living, cost of transportation, and value time when making housing decisions
- Coordinated the development of a mobile-friendly website so students could enter in their personal housing and transportation information and get cost and value time estimates

Graduate Research Assistant, NIH Quality of Life Study, CSU

2014

- Administered a quasi-experimental design survey to compare quality of life and stress outcomes
 related to living in close proximity to unconventional oil and gas production activities as member
 of an interdisciplinary research team
- Utilized drop-off pick-up method, visited over 100 homes 4+ times in one week

Researcher, EAD & Associates LLC, CSU

2014

- Conducted research for a fast turn-around research project for the Regional Catastrophic Planning Team (RCPT) Guidance to protect people with disabilities and others with access and functional needs during natural disasters
- Research informed 33 counties in four states about best practices for ground based local planning efforts during natural disasters

Graduate Research Assistant, Sociology, **NSF Robotics Initiative**, *CSU*

2013-2014

- Facilitated dialogues between farmers/ranchers and scientists to ensure that usable and efficient technology was developed to decrease ammonia emissions along the front range of Colorado
- Collaborated with mechanical engineers, atmospheric scientists, animal nutritionists, soil scientists, and sociologists

Graduate Assistant, Office of the Vice President for Student Affairs, CSU

2009-2011

- Conducted seven program evaluations and assessments:
- Off-Campus Life Program Evaluation

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 Developed and administered a survey to understand the needs of non-resident and commuter students

- Interviewed Colorado State University's peer institution schools to learn about their programs and services
- Early Grade Feedback Program Evaluation
 - Worked with a team to design a qualitative assessment to assess the roles of faculty and staff in CSU's Early Grade Feedback Program to increase retention of first-year students
- Parent and Family Program Evaluation
 - o Organized the biennial program evaluation for Parent and Family Program
 - Incorporated results into the annual program review for the Office of Parent and Family Programs
- NASPA Undergraduate Fellows Annual Evaluation
 - Conducted annual program evaluation to understand needs of historically disenfranchised and underrepresented students who want to pursue careers in in student affairs and higher education
- Non-Resident Student Exploratory Study
 - Designed an evaluation to determine support systems to improve retention of non-resident students
 - Interviewed peer institution schools to learn about other programs and services offered to non-resident students
- RamFam (Ram Family) Business Directory Assessment
 - o Designed an assessment for attendees of a promotional event
- Professional Development Series Program Evaluation
 - Conducted an evaluation to determine professional development needs of faculty and staff at Colorado State University
 - o Created an evaluation for professional development series attendees

Member, **Kansas Board of Regents Student Advisory Board,** University-wide academic advising assessment, *University of Kansas* 2007-2008

- Coordinated a university-wide assessment on academic advising with the Kansas Board of Regents
- Co-authored Internal Review Board (IRB) at the University of Kansas
- Wrote results summary which was presented to the Kansas Board of Regents

Co-Chair, Affordable Textbook Campaign, University of Kansas

2005 - 2007

- Saved students over \$600,000 in 2007-2008, (and an additional \$600,000 in 2008-2009), on textbooks, approximately \$25 per student
- Organized a Community-Based Participatory Research project (CBPR) with a team of faculty, librarians, students, and the KU bookstore
- Collaborated with the bookstores, libraries, faculty and students to reduce the costs of textbooks through on-campus solutions
- Created and administered an on-line book exchange
- Adopted by the Kansas Board of Regents to be implemented at other Regents Institutions
- Received media coverage in US Today, Wichita Eagle, and Lawrence Journal World

TEACHING EXPERIENCE

Teaching Fellow, Sociology, CSU

2018

- Re-designed curriculum to change class from an upper division course to 200 level course
- Implemented evidence-based teaching practices including reflection, active learning, applied learning, and community engagement into lectures, activities, and assignments

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• Re-designed assignments to encourage critical thinking, peer-to-peer learning, and active learning Teaching Assistant, Sociology, CSU 2013-2018

- Law Enforcement and Society (Spring 2018)
- Law Enforcement and Society (Fall 2017)
- Quantitative Sociological Analysis (Spring 2016)
- General Sociology (Fall 2015)
- Contemporary Race and Ethnic Relations (Spring 2015)
- Water Society and Environment (Spring 2015)
- Social Problems, (Fall 2014)
- General Sociology (Spring 2013)
- Social Problems (Spring 2013)
- Community Development and Dynamics (Spring 2011)

Instructor, Material Science Engineering Professional Development Class 793, CSU 2017 2014-2015

Instructor, Sociology, Fort Hays State University Virtual College, Hays, Kansas

- Diversity in the U.S. 350 VB (Spring 2015) Diversity in the U.S. 350 VE (Fall 2014)
- Diversity in the U.S. 350 VB (Fall 2014)
- Diversity in the U.S. 350 VB (Spring 2014)

Teaching Assistant, Sociology, CSU

2011

• Community Development and Dynamics

Teaching Assistant, Student Affairs in Higher Education Master's Program, CSU

2010

Human Relations 502

KEY DIVERSITY AND LEADERSHIP EXPERIENCE

Facilitator, Organization for Tropical Studies Team Science & Diversity Training,

Palo Verde, Cosa Rica

2018

Facilitated a team science and diversity training for an interdisciplinary group of graduate students researching different wildlife and ecology topics

Participant, High Impact Practices Working Group, CSU

2016

- Collaborated with a team to update the rubric for the institutional internal Five-Year Review Process based on my Master's Thesis: "Long-term Learning Outcomes of Sociology Capstone Courses at Colorado State University"
- Used my thesis to construct definitions of high-impact practices, rubrics for assessing courses, and to revise required forms for the Five-Year Review

Sociology Instructor, Fort Hays State University Virtual College, Hays, Kansas

2014-2015

- Diversity in the U.S. 350 VB (Spring 2015)
- Diversity in the U.S. 350 VE (Fall 2014)
- Diversity in the U.S. 350 VB (Fall 2014)
- Diversity in the U.S. 350 VB (Spring 2014)

Community Advisor, Alternative Break Service-Learning, CSU

2011 & 2014-2017

- Advised four service-learning experiences over spring break to Tucson, Arizona to learn about immigration from immigrant's perspectives. We partnered with No More Deaths, an agency dedicated to ending death and suffering along the border. The group mapped trails and left water for migrants crossing the desert.
- Advised one service-learning trip to Portland, Oregon (2014) with 10 students to learn about food justice, social justice, and food insecurity

Board Member, Private Opportunity Program (POP), *Dodge City, Kansas*

2012 - 2017

Volunteered on the board of a 501C3 dedicated providing opportunities to children at Sunnyside Elementary School where 94%-96% of students are eligible for free and reduced lunch

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• Authored a grant for art supplies from Dreaming Zebra. Received art supplies for 30 students to participate in a semester-long afterschool program. Value estimated at \$1,000

• Fundraised \$1,800 for laptops for students

Participant, **Cultural Inclusion Short Course**, The Institute for Teaching and Learning, *CSU*Participant, **Oread Leadership Summit**, *University of Kansas*2013

Developing Cultural Competency Skills, Facilitator, Dodge City USD #443, *Dodge City, Kansas* 2012

- Developed a cultural and sensitivity training for USD #443 Teachers
- School District is 90% free/reduced lunch

Organizer, Celebration of Graduates for the Diversity Cluster, CSU

2011

• Collaborated with a team to host the 2nd annual graduation celebration for international students and students who were participants of the diversity cluster, with sensitivity to ability, ethnicity, class, gender, and other identities.

Coordinator, NUFP Program (NASPA Undergraduate Fellows Program), CSU

2009-2011

- Created programs and hosted events for traditionally underrepresented and historically disenfranchised populations of students interested in a career in student affairs
- Expand undergraduate mentoring opportunities to LGBT and undergrepresented students

Fundraiser, Foster Care Work Group (Now called Fostering Success), CSU

2009-2011

- Fundraised \$17,000 plus in-kind donation (Frisbees, blankets, & school supplies) for former foster youth who have emancipated from the foster care system and now attend CSU
- Organized the packaging and distribution of care packages on four occasions: Homecoming Parent Family Weekend, before winter break, welcome back packages in January, and before summer break.

Proctor, **Resources for Disabled Services**, *CSU*Presenter, **CSU Diversity Conference**, "Where Do We Belong?" *CSU*Planning Committee Member, **Campus Step-Up Social Justice Retreat**, *CSU*Volunteer, **Big Brothers Big Sisters**, *Topeka*, *Kansas*2008-2009

• Visited a local elementary school to read to students once a week

Co-author, Multicultural Education Fee, University of Kansas

2007

• Co-authored a student referendum to provide \$72,000 funding annually for any student group pursuing multicultural education

Committee Member, Multicultural Affairs Committee, University of Kansas

2004-2007

• Vice Chair 2006-2007

Participant, Leadershape Institute

• Selected to participate in a leadership training institute

Volunteer, Central Junior High After School Cooking Program, Lawrence, Kansas

2006

2006

• Taught students who qualified for free/reduced lunches how to cook low-budget nutritious meals

PUBLICATIONS

2019 Love, H. B., Ozbek, M. E., & Cross, J. E. (2019). Assessment of the Development of Social and Learning Networks in Construction Management Courses Using Social Network Analysis. International Journal of Construction Education and Research, 1–21. https://doi.org/10.1080/15578771.2019.1657208

PEER-REVIEWED PUBLICATIONS UNDER REVIEW (available upon request)

2020 **Hannah B. Love**, Rodolfo Valdes-Vasquez, Svtelana Olbina, Jennifer E. Cross, "High Impact Learning Experiences and Cross-Cultural Collaboration during a Sustainable Building Course in Costa Rica."

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Hannah B. Love, Jennifer E. Cross, Bailey K. Fosdick, and Ellyn Dickmann, "Teaching Collective Cognitive Responsibility: Preparing Students for Global Knowledge-Economy"

BOOK REVIEW

2016 Greenfield, N., Haire, E., Hendrickson, J., Love, H., MacIlroy, K., Potterf, J., Ryder, S.S., Shan, Y., Unnithan, N.P., "Review of Sociologists in Action: Sociology, Social Change, and Social Justice." Edited by Kathleen Odell Korgen, JonathanM. White and Shelley K. White. *Teaching Sociology* 44, 49-51.

PUBLICATIONS IN PROGRESS (available upon request)

Hannah B. Love, Jennifer E. Cross, Ellen R. Fisher, Bailey Fosdick, "A Methodological Application of the Science of Team Science"

Hannah B. Love, Alyssa Stephens, Elizabeth Scodofio, Bailey K. Fosdick, and Ellen R. Fisher, "Diversity on Scientific Teams"

Hannah B. Love, Jennifer E. Cross, Bailey K. Fosdick, Ellen Fisher, Kevin Crooks, and Sue VandeWoude, "Interpersonal Relationships Drive Successful Team Science: An Exemplary Case Study"

Hannah B. Love, Kelsey MacIlroy, "Long-Term Learning Outcomes of Sociology Capstone Courses"

Hannah B. Love, Jennifer E. Cross, Tara Shelley, "High-Impact Forums and Activities: A New Model for High-Impact Practices"

PROFESSIONAL REPORTS

- Jen Schill, **Hannah B. Love**, Jennifer E. Cross. 2016. *City of Fort Collins Green Built Environment Program, Green Building Occupancy Survey*. Fort Collins, CO: Institute for the Built Environment, Colorado State.
- Jen Schill, **Hannah B. Love**, Jennifer E. Cross. 2016. *City of Fort Collins Green Build Environment Program Department, Barriers to Green Building*. Fort Collins, CO: Institute for the Built Environment, Colorado State.

OTHER EDUCATION PUBLICATIONS

- Jennifer E. Cross, **Hannah B. Love**, "Research Team Performance." Retrieved from https://i2insights.org/2017/01/17/research-team-performance/
- 2011 Hannah B. Love, "Students as Emerging Adults, a Transitions Guide for Parents and Families."
- 2010 **Hannah B. Love**, "To Dream of the Dream Act." *Journal of Student Affairs*. Vol. 19.

GRANTS

2015	\$2,000 Engaged Scholarship Grant, Campus Compact of the Mountain West, CSU
2013	Art Supplies valued at \$1,000 from Dreaming Zebra, Dodge City, Kansas
	• Supplies to participate in a semester-long afterschool in a school where 94%-96% of
	students were eligible for free/reduced lunch program
2009	\$5,000 Potawatomie Nation Grant, Big Brothers Big Sisters,
	Topeka, Kansas
2010	\$125,000 United Way Grant, Big Brothers Big Sisters, Topeka, Kansas

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HONORS AND AWARDS

2019 Science of Team Science (SciTS) Poster Presentation Award, Science of Team Science Conference, Lansing, MI "Successful Process Evaluation Provides Insight into Team Development and Goal Attainment: The Science of Team Science." 2018 Science of Team Science (SciTS) Meritorious Contribution Award for Emerging Scholar Poster Presentation, Science of Team Science Conference, Galveston, TX "The Central Role of Women in the Development Process and Outcomes of Scientific Teams." Social Change Scholarship, CSU, \$1000 "How the Engagement of Scientific Interdisciplinary Teams Creates Social Change. Graduate Student Methods Training Award, CSU, \$186 Graduate Student Showcase, CSU, \$125 2017 "Mentoring on Interdisciplinary Research Teams." Undergraduate Choice Award 2016 Graduate Student Showcase, CSU, \$500 "Including Graduate Students in Interdisciplinary Research." Highest achievement in the College of Liberal Arts and Sciences Office of the Vice President Graduate Research Fellows Program, CSU, \$4000 2016 2008 Woman of Distinction Award, University of Kansas Awarded for recognition as an outstanding female leader Chancellor's Award Recipient, Rusty Leffel Concerned Student Award 2008 *University of Kansas*, \$1000 Presented to two students annually who have demonstrated a concern for furthering the ideals of the university Harley S. Nelson Scholarship Award, University of Kansas, \$1200 2007 Received one of two scholarship awards given annually through the Sociology department to top students based on merit and academic achievements 2006 & 2007 McCluggage Scholarship Award, University of Kansas, \$1000 Received one of two scholarship awards given annually through the Sociology department to top students based on merit and academic achievements J. Michael Young Honors Program Scholarship Award, 2005 & 2006 University of Kansas, \$1000 Awarded academic merit scholarship through the University of Kansas Honors Program

CONFERENCE PROCEEDINGS

2020

Fisher, E.F., **Love, H.B.**, Stephens, A.D. 2020, "Special Interest Group (SIG) Incubator Spaces: What makes scientific teams successful and how do you put these practices into action?" International Science of Team Science (INSciTS), Virtual Conference, Hosted by Duke University (June 1-4).

2019

Love, H.B., Fosdick, B., Cross, J.E., Suter, M., Egan, D., Fisher, E.F. 2019, "Diversity on Scientific Teams." Association for Interdisciplinary Studies Conference, Amsterdam, Netherlands (October 23-26).

Love, H.B., Cross, J.E., Fosdick, B, VandeWoude, S., Fisher, E.F., 2019, "Training and Development on Interdisciplinary Scientific Teams." Science of Team Science (SciTS) Conference, Lansing, MI (May 20-23).

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Fisher, E.R., Cross, J.E., Love, H.B. 2019, "Principles of Community in Team Science." Science of Team Science (SciTS) Conference, Lansing, MI (May 20-23).

- Cross, J.E., Love, H.B., Fisher, E.R. 2019, "Teaching the Science of Team Science (SciTS)" Science of Team Science (SciTS) Conference, Lansing, MI (May 20-23).
- Cross, J.E., Fosdick, B, **Love**, **H.B**., Suter, M., Egan, D, Fisher, E.F. 2019, "I'm Ready, are you Ready? How do you Know of your Team is Ready?" Science of Team Science (SciTS) Conference, Lansing, MI (May 20-23).
- **Love, H.B.**, Cross, J.E., 2019, "Successful Process Evaluation Provides Insight into Team Development and Goal Attainment: The Science of Team Science" Association for Clinical and Translational Sciences, Washington D.C. (March 5-8).
- **Love, H.B.**, Cross, J.E. 2018, "Using SNA to Predict the Success of Interdisciplinary Scientific Teams." 56th International Congress of the Americanists, Salamanca, Spain, (July 15-20).

2018

- **Love, H.B.**, Cross, J.E., Fisher, E.R. 2018, "The *Central* Role of Women in the Development Process and Outcomes of Scientific Teams." INSNA International Network for Social Network Analysis Sunbelt Conference, Utrecht, Netherlands (June 26 July 1).
- Cross, J.E., **Love**, **H.B**. 2018, "Making and breaking networks: How Attending to Group Interaction Predicts the Success of Learning and Innovation in Three Types of Knowledge Networks." INSNA International Network for Social Network Analysis Sunbelt Conference, Utrecht, Netherlands (June 26 July 1).
- Fisher, E.R., Cross, J.E., **Love, H.B.** 2018, "Using Social Network Analysis to Manage and Foster Effective Interdisciplinary Academic Science Teams." INSNA International Network for Social Network Analysis Sunbelt Conference, Utrecht, Netherlands (June 26 July 1).
- Fisher, E.R., Cross, J.E., **Love, H.B.** 2018, "Teams for Solving Wicked Problems and Grand Challenges." Panel Session at INSNA International Network for Social Network Analysis Sunbelt Conference, Utrecht, Netherlands (June 26th July 1).
- VandeWoude, S., Crooks, K., **Love, H.B.**, Bentley, E., Tracey, A., Ernest, H.W., Funk, C., Gagne, E., Carver, S., Craft, M. 2018, "Broader Impacts as Real World Applications" 16th Ecology and Evolution of Infectious Disease, Glasgow, Scotland (May 29-June 1).
- **Love, H.B.,** Cross, J.E., Fisher, E.F. 2018, "The *Central* Role of Women in the Development, Process and Outcomes of Scientific Teams." Science of Team Science Conference, Galveston, TX (May 20-24).
- Cross, J.E., Love, H.B., Fisher, E.R. 2018, "Teaching Team Science." Science of Team Science Conference, Galveston, TX (May 20-24).
- **Love, H.B.**, Cross, J.E., Fisher, E.R. 2018, "The Connection between Team Development and Team Outcomes." Science of Team Science Conference, Galveston, TX (May 20-24).
- Fisher, E.R., Cross, J.E., **Love**, **H.B**. 2018, "Do interventions in Scientific Teams Matter?" Science of Team Science Conference, Galveston, TX (May 20-24).

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Love, H.B., Cross, J.E., Fisher, E.F., Suter, M., Fosdick, B. 2018, "The *Central* Role of Women in the Development, Process and Outcomes of Scientific Teams." Women in Science Symposium, Fort Collins, CO (April 19).

2017

- **Love**, **H.B**., Cross, J.E. 2017, "Mentoring on Interdisciplinary Research Teams." Graduate Research Symposium, Fort Collins, CO (November 9).
- Cross, J.E., Love, H.B., Shelley, T. 2017, "High Impact Forums and Activities." American Sociological Association Conference, Montreal, Canada (August 12-15).
- **Love, H.B.**, Cross, J.E. 2017, "Connecting Research Methods and Successful Teams." Science of Team Science (SciTS) Conference, Clearwater Beach, FL (June 12-14).
- Cross, J.E., **Love**, **H.B**. 2017, "What Makes a Team? An Evaluation of an Interdisciplinary Team Development Program." Science of Team Science (SciTS) Conference, Phoenix, AZ (May 17-19).

2016

- **Love, H.B.**, Cross, J.E. 2016, "Including Graduate Students in Interdisciplinary Research." Graduate Research Symposium, Fort Collins, CO (November 15th).
- **Love, H.B.**, Cross, J.E. 2016, "Including Graduate Students in Interdisciplinary Research." Science of Team Science (SciTS) Conference, Phoenix, AZ (May 17-19)
- **Love, H.B.**, Cross, J.E. 2016, "Increasing the Performance of Interdisciplinary Research Teams." Science of Team Science (SciTS) Conference, Phoenix, AZ (May 17-19).

2015

- **Love, H.B.**, Cross, J.E. 2015, "Long-Term Learning Outcomes of Sociology Capstone Courses." Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Brighton, England (June 23-28).
- **Love, H.B.**, Cross, J.E. 2015, "Long-Term Learning Outcomes of Sociology Capstone Courses." Midwest Sociology Society, Kansas City, MO (March 26-29).

2014

- Love, H.B., Carolan, M. 2014, "Navigating Interdisciplinary Research to Preserve Rocky Mountain National Park." Midwest Sociological Society, Omaha, NE (April 3-6).
- **Love, H.B.**, Carolan, M. 2014, "Navigating Interdisciplinary Research to Preserve Rocky Mountain National Park." Graduate Student Symposium, Fort Collins, CO (March 13).

2013

Stephens, A., Kizewski, A. 2013, **Love, H.B.**, "Community Responses to Fracking in Boulder County [Colorado]." Graduate Student Symposium, Fort Collins, CO (March 25).

2011

Love, H.B., Collard, K., 2011, "Fundraising by Friendraising." NASPA Regional Conference IV-West, Omaha, NE, (November 2011).

2010

- **Love, H.B.**, Oscar, F. 2010, "Where Do We Belong?" An Overview of Immigration, Reverse Immigration and NAFTA." Diversity Conference, Fort Collins, CO (September 2010).
- Collard, K., **Love**, **H.B.** 2010, "Partnering with Parents & Families: Influencing the Institutional Culture." NASPA National Conference, Chicago, IL, (March 2010).

2009

Collard, K., **Love**, **H.B.** 2009, "Developing Future Leaders Through NUFP Programs on Campus." NASPA Regional Conference, Santa Fe, NM (November 2009).

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Donovan, J., **Love, H.B.** 2009, "Partnering with Parents & Families: Influencing the Institutional Culture." NASPA Regional Conference, Santa Fe, NM (November 2009).

OTHER ACADEMIC PRESENTATIONS AND INVITED TALKS

2020

Love, H.B., Fisher, E.R., "Navigating Interdisciplinary Research," Graduate Professional Development (GDP) Series, CSU

2019

- **Love, H.B.,** Fisher, E.R., "Followership and Leadership: The Science of Team Science." Graduate School Professional Development Program, CSU.
- Love, H.B., "Science of Team Science 101." Vice President for Research Fellows Program, CSU.

2018

- Love, H.B., "Science of Team Science 101." Vice President for Research Fellows Program, CSU.
- **Love, H.B.,** Cross, J.E. "Knowledge Innovation: The Process of Divergent and Convergent Thinking." NSF ERC SHIELD Team, University California Davis, Davis, CA.
- Cross, J.E., **Love, H.B.,** "High Impact Forums & Activities: Mapping the Processes and Strategies for Long-Term Learning in Study Abroad Courses." Office of International Programs HIP program, CSU.
- Valdes-Vasquez, R., **Love, H.B.,** "High Impact Learning Experiences and Cross-Cultural Collaboration during a Sustainable Building Course in Costa Rica." Office of International Programs, Education Abroad, CSU.
- Cross, J.E., **Love**, **H.B.**, "High Impact Forums & Activities: Mapping the Processes and Strategies for Long-Term Learning." College of Liberal Arts, Master Teach Initiative (MTI) Luncheon with The Institute for Teaching and Learning (TILT), CSU.

2017

Love, H.B., "Successful Research Methods for Team Science." Catalyst for Innovative Partnerships (CIP) Kick-Off, Vice President for Research, CSU.

2016

- **Love, H.B.,** Cross, J.E. "Team Science: How Do We Create Successful Teams." NSF EEID Annual Retreat, Colorado State University Mountain Campus.
- **Love, H.B.,** "Formula for Long-Term Learning." Office of the Vice President for Research 3-Minutes Thesis Competition, CSU.
- Cross, J.E., **Love**, **H.B.**, and Gotthelf, H., "Workshop: Building Effect Interdisciplinary Teams." Pre-Catalyst for Innovative Partnerships (Pre-CIP), Vice President for Research, CSU.

2015

Love, H.B., Cross, J.E., "Long-Term Learning Outcomes of Service-Learning Courses." Engaged Faculty Institute Curriculum Facilitator Workshop, CSU.

2010

Love, H.B., Collard, K., "Closing the Loop by Using Results." Assessment Dialog, CSU.

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GUEST LECTURES

2020

"Team Science 101," Carolina Banuelos, Materials Science Engineering Professional Development, MSE 793, CSU (October 2020).

2019

"Navigating Campus Resources During a Crisis," Laura Reynolds, Sociology Professional Development, Sociology 500, CSU, (Fall 2019).

"Managing Conflict as a Graduate Student," Carolina Banuelos, Materials Science Engineering Professional Development, Sociology 793, CSU, (Fall 2019).

2018

"Theories of Reality," Jennifer Cross, Self and Society, Sociology 270, CSU, (Fall 2018).

"Meaning Negotiated Through Interaction," Jennifer Cross, Self and Society, Sociology 270, CSU, (Fall 201)8.

"Social Construction of Beauty," Jennifer Cross, Self and Society, Sociology 270, CSU, (Fall 2018).

"What Makes Us Human," Jennifer Cross, Self and Society, Sociology 270, CSU, (Fall 2018).

"Campus Resources," Lynn Hempel, Sociology Professional Development, Sociology 500, CSU, (Fall 2018).

"Sociology and the Environment," Austin Luzbetak, CSU, Upward Bound, (Summer 2018).

"Tornado Politics and Abortion Politics: The Path to Ending Gun Violence," Jeffery Nowacki, Law Enforcement and Society. Sociology 354, CSU, (Spring 2018).

"The Path to Self-Authorship." Jenifer Cross, Symbolic Interaction, Sociology 371, CSU, (Spring 2018).

2017

"The Spill," Lahoma Howard, Sociology of Deviance, Sociology 372, CSU, (Fall 2017).

"Solutions to Water Conflict, World Café, Theory and Practice." Stephanie Malin, Water, Society and Environment, Sociology 461, CSU, (Spring 2017).

2016

"Facilitation as a solution, Theory of Water Conflict Facilitation." Nick Greenfield, Population, Natural Resources, Environment, Sociology 320, CSU, (Fall 2016).

"Environmental solutions: World Café on Environmental Conflicts." Nick Greenfield, Population, Natural Resources, Environment, Sociology 320, CSU, (Fall 2016).

"Environmental solutions: World Café on Environmental Conflicts" Stephanie Malin, Society and Environment, Sociology 461, CSU, (Fall 2016).

"World Café on Water Conflict." Stephanie Malin, Water, Society and Environment, Sociology 461, CSU, (Spring 2016).

"History of Agricultural Water from the Ogallala Aquifer." Stephanie Malin, Water, Society, and Environment, Sociology 461, CSU, (Spring 2016).

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2015

"To Privatize or Not to Privatize Community Water?" Stephanie Malin, Water, Society, and Environment, Sociology 461, CSU, (Spring 2015).

"The Power of Water, a Rural Southwest Kansas Farmer's Perspective." Stephanie Malin, Water, Society, and Environment, Sociology 461, CSU, (Spring 2015).

"World Café on Water Conflict." Stephanie Malin, Water, Society, and Environment, Sociology 461, CSU, (Spring 2015).

2014

"Contaminated Tap Water & Technology We Take for Granted." Stephanie Malin, Society and Environment, Sociology 460, CSU, (Fall 2014).

"Tragedy of the Commons." Stephanie Malin, Society and Environment, Sociology 460, CSU, (Fall 2014).

2013

"Gender as a Social Problem." Dr. Jason Downing, Social problems, Sociology 105, CSU, (Spring 2013).

2010

"How to do Small Talk?!" Paul Osincup, Human Relations, Student Affairs in Higher Education 502, CSU, (Fall 2010).

UNIVERSITY SERVICE

Member, Faculty Search Committee, CSU	2017
Member, High Impact Practices University Committee, CSU	2015-2016
Co-President, Sociology Graduate Students, CSU	2013-2014
Member, University Council, University of Kansas	2005-2008
Board Member, Student Unions Memorial Board Corporation, University of Kansas	2006-2008
Vice Chair, Academic Policies and Procedures, University of Kansas	2006
Student Advisory Board Member, Dole Institute of Politics , <i>University of Kansas</i>	2005-2007
Member, Unclassified Senate, University of Kansas	2005-2006
Vice-Chair, Senate Executive Committee (Senex), University of Kansas	2005-2006

PUBLIC SERVICE

Co-Chair, Special Interest Group (SIG): Incubator Spaces for Team Science	2019-Present
Chair, Newcomers groups, International Network Science of Team Science	2019-Present
Member, Membership Committee for International Network Science of Team Science	2018-Present
Community Advisor, Alternative Break Service-Learning, CSU	2011, 2013-2017

- Coordinated three service-learning experiences over spring break to Tucson, Arizona to learn about immigration from immigrant's perspectives. We partnered with *No More Deaths*, an agency dedicated to ending death and suffering along the border. The group mapped trails and left water for migrants crossing the desert
- Coordinated one service-learning trip to Portland, Oregon (2014) with 10 students to learn about food justice, social justice, and food insecurity
- Coordinated readings and speakers, prior to the trip
- Prepared a proposal for the CSU Diversity Conference about the experience (2015)
- Facilitated group reflections after the service-learning experience

Water Diplomat, One World One Water Diplomat Work Study, Metro State University

2015

Educated other about water conservation and policy

Board Member, Private Opportunity Program, Dodge City, Kansas

2012-2017

Hannah Beth Love Page 17 of 19

• Volunteered for a 501C3 dedicated providing opportunities to children at Sunnyside Elementary School where 94%-96% of students are eligible for free and reduced lunch

- Authored a grant for art supplies from Dreaming Zebra. Received art supplies for 30 students to participate in a semester-long afterschool program. Value estimated at \$1,000
- Fundraised \$1,800 for laptops for students

Sports Camp Counselor, Camp Lakeside, Scott City, Kansas

2005-2015

- Coordinated activities for 50-80 junior high students for five nights and six days
- Over 1.700 Hours of service

University Advisor, Undie Run, CSU

2010-2011

• Clothing drive with over 2,000 student participants

Participant, Honduras Work Trip, First United Methodist Church, Garden City, KS 2007, 2008, & 2010

- Dug trenches and laid PVC pipe to bring running water to 40 families in remote villages
- Presented about the experience to churches and donors

Volunteer, Big Brothers Big Sisters, Topeka, Kansas

2008-2009

• Visited a local elementary school to read to students once a week

Volunteer, Central Junior High After School Cooking Program, Lawrence, Kansas

2006

• Taught students who qualified for free/reduced lunches how to cook low-budget nutritious meals **Team Member**, Youth in Gov. Design Team, Commission of Community Service, *Topeka*, *Kansas* 2003-2004

 Authored the Kansas state high school community service curriculum, which I co-presented before the Kansas Board of Education. It was approved and enacted in 2005

PROFESSIONAL EMPLOYMENT

Co-Founder, Divergent Science LLC, www.teamdivergentscience.com

2019-Present

- Team science consultants that empower scientific teams to create new knowledge and solve complex global problems.
- Offer expertise in convergence research practices for NSF grants, and training for NIH grants.
- Collaborate with a group of team scientists, statisticians, and a facilitation guild

Substitute Teacher, Dodge City School District, Dodge City, Kansas

2005-2017

- Taught K-12 students
- School district is a Title I School District with over 90% of students on free/reduced lunches, and receives migrant funding

Graduate Assistant, Office of the Vice President for Student Affairs, CSU

2009-2011

- Conducted seven program evaluations and assessments
- Created the inaugural Parent and Family's RAMFAM Business Directory. Consisting of 16 businesses recommended by parent and family members, fundraising \$8,300. The second year the directory consisted of 18 businesses and fundraised \$8,400
- Coordinated Parent and Family Programs for Orientation and Homecoming Parent and Family Weekend
- Assisted with marketing for Parent and Family Programs including the website, monthly newsletters, and Facebook page
- Organized the Parents Fund distribution, allocating \$30,000 per year to student organization and academic departments for the purpose of expanding the sense of community and enriching educational opportunities
- Planned and coordinated the 2nd annual Celebration of Graduates for the Diversity Cluster practicing sensitivity to ability, ethnicity, class, gender, and other identities.

Graduate Fraternity Advisor, Kappa Sigma, CSU

2009-2011

- Supervised Kappa Sigma and its members to help them manage a successful chapter
- Advised all fundraising projects and philanthropy
- Assessed risk with the chapter president to ensure the safety of all members

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• Facilitated workshops on dealing with conflict and having tough conversations

Fund Development Director, Big Brothers Big Sisters, Topeka, Kansas

2008-2009

- Coordinated Bowl for Kids' Sake, raised \$81,000, tripling the previous year's campaign
- Organized Little Moments Big Magic fundraising event, raised \$20,000
- Oversaw donor relations and managed donor databases
- Managed public relations and marketing by coordinating with a local TV station, maintaining a
 website, producing publications and mailings, updating our Facebook page, writing/giving
 speeches and presentations, and participating in board development
- Created materials for mailings, speeches, fundraising, and board development

Student Body President, University of Kansas, Lawrence, Kansas

2007-2008

- Allocated all student fee money, an annual budget of \$18.5 million
- Served as a member of the Student Advisory Committee to the Kansas Board of Regents, the governing body for higher education, Athletics Board of Directors, Memorial Board Corporation, and Student Senate Executive Committee
- Collaborated regularly with the University Chancellor, Provost, Vice-Provost for Student Success, State Legislatures, and Athletics Director dealing with problems, projects, and events
- Supervised and evaluated the Student Senate Administrative Assistant (unclassified staff), and 10
 Student Senate Staff Members
- Oversight of the completion of the Multicultural Resource Center, Tuition Compact, and Wireless Campus Initiative
- Introduced State Legislation for a Textbook Transparency Act
- Chaired the Educational Opportunity fund, allocated \$300,000 for scholarships and university programs

MEMBERSHIP

2020	Facilitators Guild
2019-Present	Founding Member International Network on Science of Team Science
2017-Present	American Sociology Society
2017-2018	American Sociological Association Community and Urban Sociology Section
2015-Present	International Network for Social Network Analysis (INSA)
2014-2017	Midwest Sociological Society
2008	Member, Alpha Kappa Delta Honors Society, University of Kansas,
2008	Member, Omicron Delta Kappa Honors Society, University of Kansas

PROFICIENCES

Software:

Expert Ucinet, Netdraw, SPSS, Visone, Nvivo, Qualtrics

Basic: Software Proficiency in: R and R Studio

Spanish: reading, writing and speaking

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PROFESSIONAL REFERENCES

Ellen Fisher
Assistant Vice President for Strategic Initiatives
Office of the Vice President for Research
Colorado State University
Fort Collins, CO 80523-1872
970-491-5250 (o)
Ellen.Fisher@Colostate.edu

Meg Suter Complex Proposal Development Manager Office of Vice President for Research Colorado State University Fort Collins, Co 80523-1872 970-491-3998 Meg.Suter@colostate.edu

Bailey Fosdick Assistant Professor Department of Statistics Colorado State University 1877 Campus Delivery Fort Collins, CO 80523-1877 970-491-5530 bailey.fosdick@colostate.edu

Sue VandeWoude Associate Dean of Research College of Veterinary Medicine and Biomedical Sciences Colorado State University 228 Pathology Fort Collins, CO 80523-1877 970-491-7162

sue.vandewoude@colostate.edu