

Curriculum Vitae

Kevin Cummins

Senior Statistician

Department of Family Medicine and Public Health

Department of Psychiatry

School of Medicine

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scientia
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Education

Ph.D., Interdisciplinary Research on Substance Use, Division of Infectious Disease and Global Public Health and School of Social Work, University of California San Diego and San Diego State University, 2020

Dissertation:

Heavy Episodic Drinking and Academic Consequences in Adolescence:
The Mediation Role of Neurocognitive Functioning

Synopsis:

The negative association between alcohol use and academic functioning among North American high school students is primarily driven by factors other than the neurocognitive effects of alcohol.

Methodological Tools:

Causal modeling
Comparative rather than absolute measurement model evaluation
Classical test theory
Invariance evaluation
Paratheoretical framing

M.S., Statistics, San Diego State University, 2005

Thesis:

Missing Value Analysis of an Adolescent Drug Relapse Study: Factors Related to Relapse

Synopsis:

A maximum likelihood-based approach to missing value analysis was developed, programmed, and used to reanalyze prior research on adolescent substance use.

Methodological Tools:

Missing value analysis
Expectation maximization algorithm





M.S., Biology, San Diego State University, 2003

Thesis:

Factors in the Control of Parasite Populations That Have Abundant Hosts:
Cuscuta salina in the Salt Marsh

Synopsis:

This study evaluates the core features of theoretical models in infectious disease epidemiology. It highlights the importance and challenges of systems complexity in predicting population dynamics.

Methodological Tools:

- Generalized linear models
- Factorial experimental design
- Weighted sampling design



B.S., Biology, San Diego State University, 1995, with distinction in biology

Professional Experience

Assistant Professor	California State University, Fullerton Department of Public Health	2021–Present
Senior Statistician	University of California San Diego Department of Psychology	2004–2021
Project Coordinator	University of California San Diego	2018, 2020
Technology Coordinator	University of California San Diego	2014–2017
Co-Project Director	San Diego Mesa College	2014–2015
Adjunct Professor	San Diego Mesa College	2005–2014
Biostatistician	Laser Diagnostic Technologies, Inc.	2003–2004
Biostatistician	Naval Medical Center San Diego	2002–2003
K-6 Science Instructor	San Diego State University	2000–2002
Workshop Facilitator	Health Careers Opportunity Program	1998–1999
Head Laboratory Instructor	San Diego State University	1998
Laboratory Instructor	San Diego State University	1997–2001
Project Manager	San Diego State University	1996–2002
Research Assistant	San Diego State University	1993–1995
Laboratory Technician	Coastal Resources, Inc.	1991–1993

Education Training and Development

(selected)

2021 **Participant**, Inclusion Champion Certificate Program Core Course: Diversity, Equity & Inclusion (DEI) 101. California State University, Fullerton.

- 2021 **Participant**, Remote teaching in Canvas intermediate workshop series. Faculty development center. California State University, Fullerton.
- 2021 **Participant**, Remote teaching in Canvas beginner workshop series. Faculty development center. California State University, Fullerton.
- 2021 **Trainee**, University of California San Diego Faculty Training Seminar. Teaching what you don't know. University of California San Diego.
- 2021 **Trainee**, Introduction to College Teaching Course. Sessions 1-5. University of California San Diego.
- 2021 **Trainee**, Software Carpentries Instructor Training Workshop Series: Inclusion, Active Learning, and Participatory Coding. The Carpentries.
- 2017, 2020 **Participant**, Center for Advancing Multidisciplinary Scholarship for Excellence in Education (CAMSEE) bi-weekly meetings, UCSD.
- 2018–20 **Member**, Addictions Research Group, UC San Diego.
- 2017 **Trainee**, Empowering Educators to Cultivate Inclusivity, Student Growth and Retention Training. Institutional Research and Academic Career Development Program, San Diego State University (SDSU).
- 2016 **Participant**, Center for Learning and Teaching Seminar Series, San Diego State University.
- 2015 **Participant**, Driving Student Engagement in Biology: Blending Flipped Teaching & Other Active Learning Techniques. Sapling Learning Symposium, Orange Coast College, April 25.
- 2000–02 **PICES Trainee**, Science education training, conducted by the Center for Math and Science Education faculty, SDSU.

Teaching and Supervision

Course Instruction

Course Instructor, Research Methods, School of Social Work, SDSU, Spring 2018.

Teaching Assistant, Research Methods, School of Social Work, SDSU, Fall 2017.

Guest Lecturer, Clinical Psychology Research Methods, Psychology, UCSD, Spring 2016.

Course Instructor, Biological Statistics, Biology, San Diego Mesa College, 2012–2014.

Course Instructor, Introduction to Plant Biology, Biology, Mesa College, 2005–2011.

Laboratory Instructor, Ecology, Biology, SDSU, 2001.

K-6 Science Instructor, PICES Project, SDSU, 2000–2001.

Guest Lecturer, Biostatistics, Biology, University of San Diego, 2000.

Guest Lecturer, Biostatistics, Biology, SDSU, 2000.

Laboratory Instructor, Introduction to Biostatistics, SDSU, 1999–2000.

Laboratory Instructor, Organismal Biology, SDSU, 1997–1998.

Tutor, Inorganic chemistry, 1992–1993.

Workshop Instruction

Instructor, Orientation to Statistical Programming in R, Family and Preventive Medicine, UCSD, 2015.

Workshop Facilitator, Health Careers Opportunity Program, SDSU, 1998–1999.

Recent Mentees (selected)

Trainee Name	Type/ Training Period	Project	Post-mentorship Status
Yang Lu	McNair Scholar 2019–2020	California Healthy Kids Survey: conditional perceptions of vaping harms	Northwestern PhD Trainee
Jimmy Lozano	Statistician Trainee 2020	Monitoring the Future: teen depression and social media: specification curve analysis	SPAWAR Data Analyst, Data Science MS Trainee, UCSD
Tatev Sarkissyan	STARS Scholar 2019	NCANDA: use of mobile technology to frequently assess affect and health behaviors over one year	CSU LA, Psychology, Graduate School
Angela Lee	Research Internship Mentor 2018–2019	Evaluation of cultural modifiers of addiction liability of kava	UCLA, Graduate Student, School of Social Work
Alyssa Lopez	Research Mentee 2018	NCANDA: development of measures of psychopathology, substance use, and environment	USC, Business Analytics Graduate Program
Sophia Holmquist	Research Mentee 2018	California Healthy Kids Survey: association between nicotine administration mode and depression	Research Coordinator, VA, Statistics Tutor
Krista Traxinger	Research Internship 2015	California Healthy Kids Survey: LaTeX report automation	MAAC Project, Quality Assurance Manager

Trainee Name	Type/ Training Period	Project	Post-mentorship Status
Lia Signaevskaia	Research Internship 2015	NIAAA longitudinal adolescent study: associations between diet choices, substance use, and other health behaviors	University of Virginia Medical School
Sarah Dow-Fan Hsu	Research Internship 2015	NIAAA Longitudinal Adolescent Study: distal health effects of adolescent substance use	Carnegie Mellon, Bioinformatics MS

Publications

*denotes mentee

Peer-reviewed Articles

Brumback T, Thompson W, **Cummins K**, Brown S, Tapert S. Psychosocial predictors of substance use in adolescents and young adults: Longitudinal risk and protective factors. *Addictive Behaviors*. 2021;121

Marks C, Meyers SA, Jain S et al. Involvement of people who inject drugs in injection initiation events: a cross-sectional analysis identifying similarities and differences across three North American settings. *BMJ Open*. 2021; 11(8) e046957.

Cummins K, Brumback T, Chung T, Moore R, Henthorn T, Ebersson S, Lopez A, Sarkissyan T, Nooner K, Brown S, Tapert S. Acceptability, Validity, and Engagement With a Mobile App for Frequent, Continuous Multiyear Assessment of Youth Health Behaviors (mNCANDA): Mixed Methods Study. *JMIR Mhealth Uhealth* 2021; 9(2):e24472

Cummins K, Lu Y*. Adolescents' perceptions of substance use harms are contingent on the mode of administration: It matters what you vape. Under review. *Journal of Public Health Research*.

Cummins K, Tapert S, Brown S. Comparison of factor analysis models applied to the NCANDA neuropsychological test battery. Under review. *Child Neuropsychology*.

Cummins K, Zuniga M, Reed M, Pitpitan E, Brown S. A potential explanation for the limited empirical evidence in support of theory in health promotion. Under review. *Basic and Applied Social Psychology*.

Cummins K. Reforming the use of theory in health promotion: lessons from ecology. Under review. *Health Psychology Review*.

Cummins K, Marks C. Farewell to bright-line: a guide to reporting quantitative results without the s-word. *Frontiers in Psychology*. 2020; 11(815) 1-7.

Cummins K, Diep S*, Brown S. Alcohol expectancies moderate the association between school connectedness and alcohol consumption. *Journal of School Health*. 2019; 89(11) 865-873.

- Müller-Oehring E, Kwon D, Nagel B, Sullivan E, Chu W, Rohlfing T, Prouty D, Nichols B, Poline J, Tapert S, Brown S, **Cummins K**, Brumback T, Colrain I, Baker F, De Bellis M, Voyvodic J, Clark D, Pfefferbaum A, Pohl K. Influences of age, sex, and moderate alcohol drinking on the intrinsic functional architecture of adolescent brains. *Cerebral Cortex*. 2017; 1-15.
- Sullivan E, Brumback T, Tapert S, Prouty D, Fama R, Thompson W, Brown S, **Cummins K**, Colrain I, Baker F, Clark D, Chung T, De Bellis M, Hooper S, Nagel B, Nichols B, Chu W, Kwon D, Pohl K, Pfefferbaum A. Effects of prior testing lasting a full year in NCANDA adolescents: contributions from age, sex, socioeconomic status, ethnicity, site, family history of alcohol or drug abuse, and baseline performance. *Developmental Cognitive Neuroscience*. 2017; 24 72-83.
- Pfefferbaum A, Kwon D, Brumback T, Thompson W, **Cummins K**, Tapert S, Brown S, Colrain I, Baker F, Prouty D. Altered brain developmental trajectories in adolescents after initiating drinking. *American Journal of Psychiatry*. 2017; 175(4) 370-380.
- Clark D, Chung T, Martin C, Hasler B, Fitzgerald D, Luna B, Brown S, Tapert S, Brumback T, **Cummins K**, Pfefferbaum A, Sullivan E, Pohl K, Colrain I, Baker F, De Bellis M, Nooner K, Nagel B. Adolescent executive dysfunction in daily life: relationships to risks, brain structure and substance use. *Frontiers in Behavioral Neuroscience*. 2017; 11 223.
- Larsen B, Laughlin G, **Cummins K**. Adipokines and severity and progression of coronary artery calcium: findings from the Rancho Bernardo Study. *Artherosclerosis*. 2017; 1 1-6.
- Macmillan M*, **Cummins K**, Fujioka K. What weight loss treatment options do geriatric patients with overweight and obesity want to consider? *Obesity Science & Practice*. 2016; 2(4) 477-482.
- Black C, **Cummins K**, Lawson D, Cobb C. Using wildfires as a natural experiment to evaluate the effect of fire on southern California vernal pool plant communities. *Global Ecology and Conservation*. 2016; 7 97-106.
- Haller M, Norman S, **Cummins K**, Trim R, Xu X*, Cui R*, Allard C, Brown S, Tate S. Integrated cognitive behavioral therapy versus cognitive processing therapy for adults with depression, substance use disorder, and trauma. *Journal of Substance Abuse Treatment*. 2016; 62 38-48.
- Pohl K, Sullivan E, Rohlfing T, Chu W, Kwon D, Nichols B, Zhang Y, Brown S, Tapert S, **Cummins K**. Harmonizing DTI measurements across scanners to examine the development of white matter microstructure in 803 adolescents of the NCANDA study. *Neuroimage*. 2016; 130 194-213.
- Sullivan E, Brumback T, Tapert S, Fama R, Prouty D, Brown S, **Cummins K**, Thompson W, Colrain I, Baker F, De Bellis M, Hooper S, Clark D, Chung T, Nagel B, Nichols B, Rohlfing T, Chu W, Pohl K, Pfefferbaum A. Cognitive, emotion control, and motor performance of adolescents in the NCANDA Study: contributions from alcohol consumption, age, sex, ethnicity, and family history of addiction. *Neuropsychology*. 2016; 30(4) 449-473.

- Brown S, Brumback T, Tomlinson K, **Cummins K**, Thompson W, Nagel B, De Bellis M, Hooper S, Clark D, Chung T. The National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA): a multi-site study of adolescent development and substance use. *Journal of Studies on Alcohol and Drugs*. 2015; 76(6) 895-908.
- Bravo M*, **Cummins K**, Nessler J, Newcomer S. Heart rate responses of high school students participating in surfing physical education. *Journal of Strength and Conditioning Research*. 2015; 30(2) 1721-1726.
- Cui R*, Tate S, **Cummins K**, Skidmore J, Brown S. Chronic physical health problems moderate changes in depression and substance use among dual diagnosed individuals during and after treatment. 2015; 50(2) 174-183.
- Pfefferbaum A, Rohlfing T, Pohl K, Lane B, Chu W, Kwon D, Nichols B, Brown S, Tapert S, **Cummins K**. Adolescent development of cortical and white matter structure in the NCANDA sample: role of sex, ethnicity, puberty, and alcohol drinking. *Cerebral Cortex*. 2015; 1 1-21.
- Rohlfing T, **Cummins K**, Henthorn T, Chu W, Nichols B. N-CANDA data integration: anatomy of an asynchronous infrastructure for multi-site, multi-instrument longitudinal data capture. *Journal of the American Medical Informatics Association*. 2014; 21(4) 758-762.
- Tomlinson K*, **Cummins K**, Brown S. Social anxiety and onset of drinking in early adolescence. *Journal of Child & Adolescent Substance Abuse*. 2013; 22(2) 163-177.
- Laughlin G, Barrett-Connor E, **Cummins K**, Daniels L, Wassel C, Ix J. Sex-specific association of fetuin-A with type 2 diabetes in older community-dwelling adults, the Rancho Bernardo Study. *Diabetes Care*. 2013; 36(7) 1994-2000.
- Laughlin G, **Cummins K**, Wassel C, Daniels L, Ix J. The association of fetuin-A with cardiovascular disease mortality in older community-dwelling adults: the Rancho Bernardo Study. *Journal of the American College of Cardiology*. 2012; 59(19) 1688-1696.
- Jassal S, Chonchol M, Laughlin G, **Cummins K**, Smits G, Kramer C, Ix J, Barrett-Connor E. Kidney function and progression of coronary artery calcium in community-dwelling older adults (from the Rancho Bernardo Study). *The American Journal of Cardiology*. 2012; 110(10) 1425-1433.
- Laughlin G, Ix J, **Cummins K**, Allison M, Daniels L. Extremes of an aromatase index predict increased 25-year risk of cardiovascular mortality in older women. *Clinical Endocrinology*. 2012; 77(3) 391-398.
- Bekman N, **Cummins K**, Brown S. The influence of alcohol-related cognitions on personality-based risk for alcohol use during adolescence. *Journal of Child & Adolescent Substance Abuse*. 2011; 20(4) 387-405.
- Ix J, Barrett-Connor E, Wassel C, **Cummins K**, Bergstrom J, Daniels L, Laughlin G. The associations of fetuin-A with subclinical cardiovascular disease in community-dwelling persons: the Rancho Bernardo Study. *Journal of the American College of Cardiology*. 2011; 58(23) 2372-2379.

- Laughlin G, Mcevoy L, Von Mühlen D, Daniels L, Kritz-Silverstein D, Bergstrom J, **Cummins K**, Der-Martirosian C, Jassal S, Barrett-Connor E. Sex differences in the association of Framingham Cardiac Risk Score with cognitive decline in community-dwelling elders without clinical heart disease. *Psychosomatic Medicine*. 2011; 73(8) 683.
- Granholtm E, Tate S, Link P, Lydecker K*, **Cummins K**, Mcquaid J, Shriver C, Brown S. Neuropsychological functioning and outcomes of treatment for co-occurring depression and substance use disorders. *American Journal of Drug Alcohol Abuse*. 2011; 37(4) 240-249.
- Doran N, Sanders P, Bekman N, Worley M, Monreal T*, Mcgee E, **Cummins K**, Brown SA. Mediating influences of negative affect and risk perception on the relationship between sensation seeking and adolescent cigarette smoking. *Nicotine & Tobacco Research*. 2011; 13(6) 457-465.
- Hanson K*, **Cummins K**, Tapert S, Brown S. Changes in neuropsychological functioning over 10 years following adolescent substance abuse treatment. *Psychology of Addictive Behaviors*. 2011; 25(1) 127-134.
- Lorang M*, Callahan B*, **Cummins K**, Achar S, Brown S. Anabolic androgenic steroid use in teens: prevalence, demographics, and perception of effects. *Journal of Child & Adolescent Substance Abuse*. 2011; 20(4) 358-369.
- Norman S, Tate S, Wilkins K*, **Cummins K**, Brown S. Posttraumatic stress disorder's role in integrated substance dependence and depression treatment outcomes. *Journal of Substance Abuse Treatment*. 2010; 38(4) 346-355.
- Lydecker K*, Tate S, **Cummins K**, Mcquaid J, Granholtm E, Brown S. Clinical outcomes of an integrated treatment for depression and substance use disorders. *Psychology of Addictive Behaviors*. 2010; 24(3) 453-459.
- Pulido C, Brown S, **Cummins K**, Paulus M, Tapert S. Alcohol cue reactivity task development. *Addictive Behavior*. 2010; 35(2) 84-90.
- Anderson K, Ramo D, **Cummins K**, Brown S. Alcohol and drug involvement after adolescent treatment and functioning during emerging adulthood. *Drug and Alcohol Dependence*. 2010; 107(2) 171-181.
- Bekman N, **Cummins K**, Brown S. Affective and personality risk and cognitive mediators of initial adolescent alcohol use. *Journal of Studies on Alcohol and Drugs*. 2010; 71(4) 570-580.
- Anderson K, Ramo D, Schulte M*, **Cummins K**, Brown S. Impact of relapse predictors on psychosocial functioning of SUD youth one year after treatment. *Substance Abuse*. 2008; 29(2) 97-106.
- Tate S, Wu J*, Mcquaid J, **Cummins K**, Shriver C, Krenek M, Brown S. Comorbidity of substance dependence and depression: role of life stress and self-efficacy in sustaining abstinence. *Psychology of Addictive Behaviors*. 2008; 22(1) 47-54.
- Anderson K, Ramo D, Schulte M, **Cummins K**, Brown S. Substance use treatment outcomes for youth: integrating personal and environmental predictors. *Drug and Alcohol Dependence*. 2007; 88(1) 42-48.

- Nagel B, Ohannessian A, **Cummins K**. Performance dissociation during verbal and spatial working memory tasks. *Perceptual and Motor Skills*. 2007; 105(1) 243-250.
- Glasner-Edwards S, Tate S, Mcquaid J, **Cummins K**, Granholm E, Brown S. Mechanisms of action in integrated cognitive-behavioral treatment versus twelve-step facilitation for substance-dependent adults with comorbid major depression. *Journal of Studies on Alcohol and Drugs*. 2007; 68(5) 663-672.
- Riffenburgh R, **Cummins K**. A simple and general change point identifier. *Statistics in Medicine*. 2006; 25(6) 1067-1077.

In Preparation

- Cummins K**, Laughlin G, McEvoy L. Modifiable protective factors in brain aging: how does alcohol compare? Target journal: *American Journal of Epidemiology*.
- Cummins K**, Brown S. Growth mixture models for longitudinal analysis of adolescent substance use and co-occurring Axis-I disorders: not even wrong. Target journal: *Advances in Methods and Practices in Psychological Science*.
- Cummins K**, Clark D, Brown S. Application of item response theory in the creation of an abbreviated version of the Behavioral Rating Inventory of Executive Functioning (BRIEF). Target journal: *Clinical and Experimental Neuropsychology*.

Other Publications

- Cummins K**. Tips on writing results for a scientific paper. *AMSTAT News*. 2009; 387 39-41.
- Cummins K**. Seed banks of Cabrillo National Monument: An Update. *Quail Tracks* 5. 2004; (2) 4-5.
- Cummins K**. What's missing at Cabrillo National Monument? *Quail Tracks* 4. 2003; (1) 5.
- Cummins K**. To repeat or block in experiments? *Trends in Plant Sciences*. 1999; 7(43) 251-252.

Research Reports

- Lee Y*, **Cummins K**, Brown S. Laguna Beach Unified School District California Healthy Kids Survey 2020: Analytical Report. Final Report. UC San Diego, CA 2020.
- Cummins K**. Seedbanks of Cabrillo National Monument. Final Report. SDSU, San Diego, CA. 2003.
- Seiger L, **Cummins K**, Zedler P. Long Term Ecological Trend Monitoring Program for Marine Corps Base Camp Pendelton: 1999 Field Season. Final Report. SDSU, San Diego, CA. 2001.
- Seiger L, **Cummins K**, Miller K, Zedler P. Long Term Ecological Trend Monitoring Program for Marine Corps Base Camp Pendelton: 1998 Field Season. Final Report. SDSU, San Diego, CA. 2000.
- Cummins K**, Zedler P. Riparian Vegetation Mapping at Camp Pendelton. Final Report to Geolnsight International. SDSU, San Diego, CA. 1997.

Cummins K, Else J, Zedler P, Miller K. Monitoring of Riparian Habitat on United States Marine Corps Base, Camp Pendelton. Final Report to Marine Corps Base Camp Pendelton. SDSU, San Diego, CA. 1996.

Cummins K. Vegetation History of Cabrillo National Monument. Final Research Report to the National Park Service. SDSU, San Diego, CA. 1995.

Course Manuals

Cummins K. *Introduction to Biological Statistics*. Montezuma Press. San Diego. 2013.

Cummins K, Seiger L. *Laboratory Manual for Botany*. Montezuma Press. San Diego. 2007.

Invited Talks

Cummins K. Using mobile technology to capture youth health behaviors. Adolescent Brain and Cognitive Development Consortium National Investigators Meeting. Internet meeting, August 10, 2021.

Cummins K. Publishing Research Reports Without Using the S-Word. Invited participant and presenter for Research into Aging T32 Fellows Workshop Series. UC San Diego, November 4, 2020.

Oral Presentations (selected)

Gonzalez M, Infante A, **Cummins K**, Tapert S, Brown S. Community Predictors of Alcohol Use in Youth in the NCANDA Cohort. Research Society on Alcoholism Annual Meeting, 2020.

Cummins K, Brumback T, Chung T, Nooner K, Tapert S, Brown S. Mobile App Development in NCANDA: Innovative Methodologies to Enhance Longitudinal Data Collection. Presented at the 42nd Annual Research Society on Alcoholism Annual Scientific Meeting. Minneapolis, MN, June 18, 2019.

Bagot K, Infante A, **Cummins K**, Clark D, Jacobus J, Brumback T, Ebersson S, Tapert S. Psychopathological Trajectories of Youth Who Progress to Regular Alcohol Use. 41st Annual Scientific Meeting of the Research Society on Alcoholism. San Diego, CA, June 16, 2018.

Brumback T, **Cummins K**, Baker F, Colrain I. Harnessing the Power of Mobile Technology to Monitor Alcohol Use and Behaviors in Daily Life. Research Society on Alcoholism Annual Meeting, 2018.

Cummins K. Development and Evaluation of an Implementation Intervention for Alcohol-related Personalized Normative Feedback on U.S. College Campuses. Implementation Science Seminar. UCSD, June 18, 2017.

Garcia TA, **Cummins K**, Taylor T, Anderson K. Challenges in Qualitative Data Analysis in Group Processes. Research Society on Alcoholism Annual Meeting, 2017

- Cummins K.** Interesting Statistical Phenomena that Arise in Observational Studies. Brown Bag Lunch Series, Department of Social Work. San Diego State University, March 9, 2016.
- Cummins K,** Thompson W. A Bayesian Model for Multivariate Functional Principal Components Analysis. Joint Statistical Meeting, American Statistical Association. August 11, 2015.
- Tapert S, Brumback T, Tomlinson K, **Cummins K,** Baker F, Clark D, Colrain I, De Bellis M, Nagel B, Chu W, Rohlfing T, Pohl K, Sullivan E, Pfefferbaum A, & Brown S. NCANDA: Characterization of the Sample. Presented at the Research Society on Alcoholism Conference. San Antonio, TX, June 22, 2015.
- Haller M, Norman S, **Cummins K,** Xu X, Cui R, Tate S. Integrated Cognitive Behavioral Therapy versus Cognitive Processing Therapy for Adults with Depression, Substance Use Disorder, and Trauma: PTSD and Depression Outcomes. Presented at International Society for Traumatic Stress Studies 31st Annual Meeting. New Orleans, LA, November 5, 2015.
- Saritelli S*, Myers M, **Cummins K,** Brown S. Exploring Problem Use: Comparing Youth with Alcohol Use Disorders and Community Adolescents 20 Years Post-Treatment. Abstracted in *Alcoholism: Clinical and Experimental Research* 38, 289A-290A. 2014.
- Pulido C, Brown S, Tapert S, Bekman N, **Cummins K.** The Effect Of Heavy Drinking and Abstinence on Cognition and Alcohol Cue Reactivity Among Adolescents. Presented at the 35th Annual Scientific Meeting of the Research Society on Alcoholism. San Francisco, CA, June 23-27, 2013.
- Cui R*, Tate S, **Cummins K,** Skidmore J, Brown S. The Effect of Chronic Health Problems on Response to Treatment for Comorbid Depression and Substance Dependence. Presented at Society of Behavioral Medicine 2013 Conference.
- Cummins K.** A Quick Tour of Botany: A Peek into Plant Anatomy and Function. Presented to the California Rare Fruit Growers Association, San Diego Chapter. June 2012.
- Cummins K,** Lawson D, Lombardo K. To Burn Or Not to Burn: Using *Ceanothus verrucosus* Population Models to Inform Management. Presented at the California Native Plant Society 2012 Conference. San Diego, CA, May 2012.
- Laughlin G, **Cummins K,** Daniels L. Extremes of Aromatase Index Predict Increased 25-year Risk of Cardiovascular Mortality in Older Women: The Rancho Bernardo Study. American Heart Association Scientific Sessions. Chicago, IL, November 2010.
- Laughlin G, Wassel C, **Cummins K,** Barrett-Connor E. Association of Endogenous Sex Hormones with Longevity into the 80s and 90s: The Rancho Bernardo Study. Endocrine Society Meeting. San Diego, CA, 2010.
- Cummins K.** An Overview of Linear Mixed Models. Addictions Research Seminar, VA Medical Center. San Diego, CA, 2009.
- Brown S, Ramo D, Anderson K, **Cummins K.** Interpersonal Functioning of Youth 10 Years After Substance Abuse Treatment. Third Conference on Emerging Adulthood. Tucson, AZ, 2007.

- Glasner S, Tate S, Mcquaid J, **Cummins K**, Brown S. Process Changes in Integrated Cognitive Behavioral Treatment Versus Twelve-step Facilitation for Substance Dependent Adults with Comorbid Major Depression. Paper presented at the 29th Annual Scientific Meeting of the Research Society Alcoholism. Baltimore, MD, 2006.
- Cummins K**. A Review of Multiplicity Adjustments: Procedures and Practice. Addictions Research Seminar, Department of Psychiatry, VA Medical Center. San Diego, CA, 2006.
- Cummins K**. Missing Value Analysis of an Adolescent Drug Relapse Study: Factors Related to Relapse. Master's thesis defense presented to the Department of Mathematics and Statistics at SDSU. April 2005.
- Riffenburgh R, **Cummins K**. A Simple and General Change Point Detector. Joint Statistical Meeting, ASA. Toronto, Canada, June 2004.
- Cummins K**. Seedbanks of Long Unburned Shrublands. California Botanical Society Annual Graduate Student Symposium. University of San Diego, 2003.
- Ross D, Coven H, **Cummins K**, Pacheco R, Prowd C, Fisher E, Taylor N, Oechel W. Linking K-6 Science Learning with Near-Real Time Data. 83rd Annual Meeting of the Pacific Division, American Association for the Advancement of Science. Waimea, HI, June 2003.
- Cummins K**. The Design of Web-based Activities that Tie into Inquiry Driven Science Kits: Using Near Real-time Data. Presented at the PISCES Advisory Board Meeting. General Atomics. San Diego, CA, 2001.
- Cummins K**. Factors in the Control of a Parasite Population That Has Abundant Hosts: *Cuscuta salina* in the Salt Marsh. Presented at the Ecology Society of America's annual meeting. Snow Bird, UT, 2000.
- Cummins K**. Vegetation History of Cabrillo National Monument. Presentation of Research Findings to the Public and Staff of Cabrillo National Monument. Cabrillo National Monument. San Diego, CA, 1995.

Poster Presentations (selected)

- Cummins K**, Lu Y*. Contingencies of adolescents' harm perceptions regarding substance use. Collaborative Perspectives on Addiction Annual Meeting. Division 50 of the American Psychological Association. Virtual session, March 18, 2021.
- Cummins K**, Infante A, Tapert S, Bagot K. Changes in Youth Psychopathology and Personality Trajectories in Relation to Risky Drinking Onset. Collaborative Perspectives on Addiction Annual Meeting. Division 50 of the American Psychological Association. Virtual session, apadivision50@twitter, April 16, 2020.
- Cummins K**, Freilich J*, Lopez A*. Developing Data Models and Documentation for Complex Longitudinal Studies: Lessons Learned from NCANDA. The 2020 American Statistical Association Conference on Statistical Practice. American Statistical Association. Sacramento, CA, February 20-22, 2020.

- Holmquist S*, Brown S, Tapert S, **Cummins K**. Modes of Nicotine Administration and Depression in Adolescents. College on Problems of Drug Dependence 80th Annual Scientific Meeting. San Diego, CA, June 9, 2018.
- Bravo M*, **Cummins K**, Nessler J, Newcomer S. Heart Rate Responses of High School Students Participating in Surfing Physical Education. Journal of Strength and Conditioning Research/National Strength & Conditioning Association Annual Meeting. 2015.
- Silvas M, Howden M, Mandel E, **Cummins K**, Nessler J, Newcomer S. Knee Extension and Flexion Strength in Recreational Surfers: Medicine & Science in Sports & Exercise. May 28, 2015.
- Haller M, **Cummins K**, Xu X*, Cui R*, Norman R, Tate S. Integrated Cognitive Behavioral Therapy versus Cognitive Processing Therapy for Adults with Depression, Substance Use Disorder, and Trauma: PTSD and Depression Outcomes. Annual Meeting of the International Society for Traumatic Stress Studies. New Orleans, LA, June 2015.
- Laughlin G, Daniels L, **Cummins K**, Wassel C, Ix J. The Sex-Specific Association of Fetuin-A with Diabetes in Older Community-Dwelling Adults: The Rancho Bernardo Study. Diabetes Care. American Heart Association Cardiovascular Epidemiology Conference. San Diego, CA May 2012.
- Jassal S, Chonchol M, Laughlin G, **Cummins K**, Smits G, Kramer C, Ix J, Barrett-Connor E. Kidney Function and Progression of Coronary Artery Calcification in Community-Dwelling Older Adults: The Rancho Bernardo Study. American Heart Association Cardiovascular Epidemiology Conference. San Diego, CA, May, 2012.
- Laughlin G, Barrett-Connor E, Wassel C, **Cummins K**, Ix J. The sex-specific association of Fetuin A with All-cause and Cardiovascular Mortality Among Older Adults: The Rancho Bernardo Study. Annual Meeting of the Endocrine Society. Boston, MA, July 2011.
- Laughlin G, Araneta M, **Cummins K**, Allison M, Barrett-Connor E, Wassel C. The Prospective Association of Adipokines with Coronary Artery Calcification in Older Adults: The Rancho Bernardo Study. American Heart Association Cardiovascular Epidemiology Conference. Atlanta, GA, March 2011
- Bekman N, **Cummins K**, & Brown S. Alcohol-related Cognitions Mediate Personality-based Drinking Risk During Adolescence. Poster presented at the 118th Annual APA Convention. San Diego, CA, 2010.
- Laughlin G, Wassel C, **Cummins K**, Barrett-Conner E. Association of Endogenous Sex Hormones with Longevity into the 80s and 90s: The Rancho Bernardo Study. Poster presented at the 2010 Endocrine Society Meeting. San Diego, CA, 2010.
- Bekman N, **Cummins K**, Brown S. Alcohol-related Cognitions Mediate Personality-based Drinking Risk During Adolescence. Poster at the 118th Annual APA Convention. San Diego, CA, June 2010.
- Wilkins K*, Norman S, **Cummins K**, Khoddam R, Brown S. Does a Decade Make a Difference Comparing Adolescents with Alcohol Use Disorders and Community Adolescents Ten Years Following Study Entry? Poster presented at the 33rd Annual Meeting of the Research Society on Alcoholism, San Antonio, TX. Also abstracted in: *Alcoholism: Clinical & Experimental Research*, 34(6), 112A. 2010.

- Wilkins K*, Norman S, **Cummins K**, Khoddam R, Brown S. Adolescents with Alcohol Use Disorders and Community Adolescents Twenty Years (Age 35) Following Study Entry. Poster presented at the 33rd Annual Meeting of the Research Society on Alcoholism, San Antonio, TX. Also abstracted in *Alcoholism: Clinical & Experimental Research*, 34(6), 115A. 2010.
- Pulido C, Brown S, **Cummins K**, Tapert S. fMRI Alcohol Cue Reactivity Task Development. Poster presented at the 32nd Annual RSA Scientific Conference. San Diego, CA, 2009.
- Worley M, **Cummins K**, Trim R, Tate S, Hall J, Brown S. Predicting Ancillary Service Utilization with Trajectories of Substance Use and Depression. Poster presented at the 43rd Annual Convention of the Association for Behavioral and Cognitive Therapies (ABCT). New York, NY, 2009.
- Wilkins K*, Norman S, Tate S, **Cummins K**, Brown S. The Role of PTSD in Depression and Substance Dependence Treatment Outcomes. Poster presented at the 32nd Annual RSA Scientific Conference. San Diego, CA, 2009.
- Pulido C, Brown S, **Cummins K**, Tapert S. fMRI Alcohol Cue Reactivity Task Development. 32nd Annual Scientific Meeting of the Research Society on Alcoholism. San Diego, CA, 2009.
- Bekman N, **Cummins K**, Brown S. Affective and Personality Risk and Cognitive Mediators of Initial Adolescent Alcohol Use. 32nd Annual Scientific Meeting of the Research Society on Alcoholism. San Diego, CA, 2009.
- Brown S, Ramo D, Anderson K, **Cummins K**. Interpersonal Functioning of Youth Ten Years After Substance Abuse Treatment. Third Conference on Emerging Adulthood. 2009.
- Worley M, **Cummins K**, Trim R, Tate S, Hall J, Brown S. Predicting Ancillary Service Utilization with Trajectories of Substance Use and Depression. Poster presented at the 43rd Annual Convention of the Association for Behavioral and Cognitive Therapies (ABCT). New York, NY, 2009.
- Ramo D, Anderson K, **Cummins K**, Brown S. Ten Year Outcomes from Adolescent Alcohol and Drug Treatment. Poster presented at the 115th American Psychological Association Convention. San Francisco, CA, 2007.
- Glasner S, Wu J, Krenek M, Shriver C, Tate S, **Cummins K**, Mcquaid J, Granholm E, Brown S. Process Changes in Cognitive Behavior Treatment and Twelve Step Facilitation for Alcohol/Substance Dependent Adults with Comorbid Major Depression. Baltimore, MD, 2006.
- Nagel B, Schweinsburg A, **Cummins K**, Eyler L, Tapert S. The Unique Influences of Age and Task Performance on fMRI Response to a Visual Working Memory Task Across Early Adolescent Development. International Neuropsychological Society Meeting. Switzerland, 2006.
- Cummins K**, Papworth W, Lo B, Sinai M, Zhou Q. Short-Term Repeatability of Nerve Fiber Layer Measurements Using the GDx VCC. The Association for Research in Vision and Ophthalmology 2004 Annual Meeting. Ft. Lauderdale, FL, 2004.

Zhou Q, Lo B, Reed J, Papworth W, **Cummins K**, Knighton R. Improving Signal-To-Noise Ratio of SLP RNFL Measurements Through a Software-Based Enhancement. International Society for Imaging in the Eye Second Annual Meeting. Fort Lauderdale, FL, 2004.

Baumberger R, **Cummins K**. Shifting Hybrid Zones in *Mimulus aurantiacus*. Santa Margarita Ecological Reserve Symposium. Temecula, CA, 2001.

Current Professional Affiliations

American Public Health Association

American Statistical Association

Research Society on Alcoholism

National Association of Social Workers

Research Contracts and Grants

Project	Role	Amount (\$)	Period	Agency
California Healthy Kids Survey	Developer, Coordinator	25,000, 25,200	2018, 2020	LBUHSD
Long-term Ecological Momentary Assessment Feasibility Study	Project PI	23,000	2016	NCANDA (NIH-NIAAA)
STEM Engagement for Enrichment of Diverse Students	Co-Director	290,000	2015–17	USDA-NIFA
Utilization of Variance Ratio Tests to Detect Change Points in Medical Data	PI	-	2003	Naval Medical Center San Diego
Seed Banks of Cabrillo National Monument	PI*	78,000	2000	National Parks Service

* Initially awarded to K Cummins and subsequently transferred to PH Zedler and administered by K Cummins.

Service (selected)

2021 **Member**, Department of Public Health Graduate Committee, California State University, Fullerton.

2020–21 **Reviewer**, Journal of Prevention and Health Promotion.

- 2021 **Reviewer**, American Public Health Association Annual Meeting abstract reviewer.
- 2021 **Vaccinator Assistant**, University of California San Diego mass vaccination clinic, Petco Park, San Diego.
- 2021 **Reviewer**, *Journal of Prevention and Health Promotion*.
- 2020–21 **Carpentry Instructor** (in training), Volunteer data science coding (R, Stata) instructor, The Carpentries, UCSD.
- 2020–21 **Statistical Reviewer**, *Kidney Medicine*.
- 2019–20 **Student Representative** (presiding officer), Joint Doctoral Program in Interdisciplinary Research on Substance Use Student Council, SDSU & UCSD.
- 2020 **Self-report Data Revision Working Group Member**, NCANDA.
- 2019 **Judge**, Interprofessional education workshop focused on the opioid crisis, School of Public Health, SDSU.
- 2019 **Committee Member**, Aztecs for Recovery, SDSU.
- 2019 **Peer Mentor**, GradPals, UCSD.
- 2017 **Planning Committee Member**, Center for Advancing Multidisciplinary Scholarship in Excellence in Education, UCSD.
- 2016 **Data Request Committee Member**, NCANDA.
- 2016–18 **Reviewer**, *Child Development Research*.
- 2015 **Event Organizer, Judge**, San Diego Mesa College Research Conference, May 8th, San Diego Mesa College.
- 2014 **Ambassador**, San Diego Mesa College Welcome Week, San Diego Mesa College.
- 2015 **Facilitator**, Introduction to Statistical Programming, UCSD Division of Social Sciences High School Summer Intern Seminar Series.
- 2014–15 **Chairperson**, Special Events Committee, San Diego Chapter of the American Statistical Association.
- 2016 **Judge**, Greater San Diego Science and Engineering Fair.
- 2011–13 **Vice President for Academic Affairs**, San Diego Chapter of the American Statistical Association.
- 2012–15 & 2006–07 **Representative**, American Statistical Association, San Diego Science and Engineering Fair.
- 2007–08 **Commissioner**, Science Chairperson, San Diego County Association of Governments Transportation Oversight Board.
- 2006 **Reviewer**, *Statistics in Medicine: Second Edition*, Academic Press.
- 2004 **Student Representative**, SDSU Biology Department faculty search committee.
- 2003 **Reviewer**, *Madrone*, a scholarly journal for botanists.
- 2002 **Webmaster**, San Diego Chapter of the American Statistical Association.

Honors

College of Health and Human Services Scholars Travel Award, SDSU, 2020

Rose Recognition, *North County Times*, 2007

ARCS Scholarship, 2001–02

National Science Foundation PISCES Fellowship Award, 2001–02

Best Data Graphics Poster, SDASA, 2002

Ferris Graduate Scholarship, 2000

September 1, 2021

