John "Keoni" S.K. Kauwe, Ph.D.

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I am a tenured Associate Professor with affiliations in the Departments of Biology and Neuroscience at Brigham Young University. My university assignment consists of 45% effort for teaching/mentoring, 45% effort for research and 10% effort for citizenship. My long-term goal is to maintain an active and high quality research program while effectively leading and mentoring both graduate and undergraduate students. In addition to my research efforts I teach 7-12 credit hours of undergraduate courses per year and mentor about 20 undergraduates in my lab.

Current Position

Associate Professor	2014-present	Brigham Young University Provo, UT	Department of Biology
Associate Chair	2016-present	Brigham Young University Provo, UT	Department of Biology

Education

Postdoc	2008	Washington University St. Louis, MO	Alzheimer's disease biomarkers and genetics
Ph.D.	2007	Washington University St. Louis, MO	Evolution, Ecology and Population Biology
M.S.	2003	Brigham Young University Provo, UT	Population Genetics
B.S.	1999	Brigham Young University Provo, UT	Molecular Biology

Research Positions

2014 – Pres **Associate Professor**– Brigham Young University, Dept. of Biology. Identification and functional characterization of disease associated genetic variation

2008 – 2014 **Assistant Professor**– Brigham Young University, Dept. of Biology. Identification and functional characterization of disease associated genetic variation

2007 – 2008 **Postdoctoral Research Scholar**– Washington University School of Medicine. Identification and characterization of disease associated genetic variation

2004 – 2007 **Ph.D. Student**– Lab of Dr. Alison Goate, Washington University in St. Louis. "Using cerebrospinal fluid protein levels as quantitative endophenotypes to identify novel genetic risk factors for Alzheimer's disease"

2004 **Graduate Research Assistant**– Lab of Dr. Brian Suarez, Washington University. Work on the Genetics Analysis Workshop 14, comparing the utility of SNPs from the Affymetrix and Illumina genotyping chips and microsatellite markers for genome–wide linkage scans and studies of population stratification.

2004 **Graduate Research Assistant**– Lab of Dr. Alan Templeton, Washington University. Implemented novel, evolution–based methods of analyzing haplotype data for association with both quantitative and qualitative phenotypes.

2003 **Graduate Research Assistant**– Lab of Dr. Alison Goate, Washington University. Genotyping and association analysis of Alzheimer's disease candidate genes.

2001 – 2003 **M.S. Thesis**– Lab of Dr. Dennis Shiozawa, Brigham Young University. "Phylogenetic and nested clade analysis of the stonefly *Pteronarcys californica* in the Western United States."

1996 – 1999 **Undergraduate Research Assistant**, Brigham Young University. Assisted in the Fish DNA Laboratory

Teaching Experience

2009-Present **Instructor**, Brigham Young University
Designed and presented course materials for Biology 130: Biology, Biology 165: Introduction to Bioinformatics, Biology 463: Genetics of Human Disease and Physiology and Developmental Biology 120: Science of Biology

2008 **Instructor**, Washington University in St. Louis
Designed and presented course materials for "Research Focus", a course designed to prepare freshman for pursuing a career in research

2008 **Lecturer**, Washington University School of Medicine
Presented on "Genetics and Model Organisms" for the Medical School course entitled "Medical Genetics"

2005 – 2006 **Teaching Assistant**, Washington University in St. Louis
Presented lectures and assisted in exam grading and preparation for courses in "Population Genetics" and "Evolution"

2002 – 2003 **Adjunct Faculty**, Utah Valley University.
Designed and presented lectures, wrote tests, and evaluated papers for Biology 1010: Biology course

2001 – 2002 **Instructor**, Brigham Young University.
Designed class activities and taught field methods for "Methods in Ecology" course

Other Experience

2016 **Organizing Committee Member,** LDS Life Sciences Research Symposium

2014-2015 **Panelist and Committee Member**, NIH Alzheimer's Disease Research Summit

2013-Present **Associate Director**, BYU Rheumatic Relief Internship Program

2013-2016 **Scientific Lead**– SAGE/DREAM Alzheimer's disease Big Data Challenge

2010-Present **Consultant**, Genoma LLC
Genetic analysis of complex traits.

2008-Present **Consultant**, King's View LLC
Evaluate research and technology and provide scientific advice relating to investment decisions.

2005-2008 **Coordinator**, Biomedical Research Apprenticeship Program Lecture Series. Organized and moderated the summer lecture series.

2002-2003 **Vice President**, Brigham Young University Graduate Student Association. Directed publicity and organized events.

Extramural Research Grants (Total Funding: $6,285,755)

2017 National Institutes of Health National Institute on Aging R01
Integrative Network Modeling of Cognitive Resilience to AD
Role: Subcontract PI
BYU Funding: $185,680 Funding Period: 09/01/2017-08/03/2022

2016 National Institute of Health National Institute on Aging 1 RF1 AG054052-01
Epidemiology of Alzheimer's disease resilience and risk pedigrees
Role: Principal Investigator
BYU Funding: $3,528,416 Funding Period: 09/01/2016-06/30/2021

2016 National Institutes of Health National Institute on Aging R01 AG054060
Pleiotropy GWAS of Alzheimer's disease (A. Naj PI)
Role: Co-Investigator
BYU Funding: $104,958 Funding Period: 09/01/201-04/30/2021

2016 National Science Foundation
MRI: Acquisition of a PacBio Sequel System (S.M. Bybee PI)
Role: Co-investigator
BYU Funding: $307,723 Funding Period: 09/01/2016-08/30/2019

2016 Monsanto Fund – US Site Grants
Molokai High School Genomic Research
Role: Principal Investigator
BYU Funding: $20,000 Funding Period: 06/01/2016-12/31/2016

2015 National Institutes of Health National Institute on Aging R01 AG042611-03S2
Research Supplements to Promote Diversity in Health-Related Research
Role: Principal Investigator
BYU Funding: $69,140 Funding Period: 09/01/2015-12/31/2017

2015 National Institutes of Health National Institute on Aging R01 AG042611-03S2
Research Supplements to Promote Diversity in Health-Related Research
Role: Principal Investigator
BYU Funding: $69,140 Funding Period: 09/01/2015-12/31/2017

2013 Charleston Conference on Alzheimer's Disease New Vision Grant
Familial study of healthy, high-risk controls in Alzheimer's disease risk pedigrees
Role: Principal Investigator
BYU Funding: $50,000 Funding Period: 03/01/2013-02/28/2014

2012 Utah DWR Research Grant
Nuclear and Mitochondrial DNA Analysis of Cutthroat Trout
Role: Co-Principal Investigator
BYU Funding: $231,000 Funding Period: 09/01/2012-12/31/2017

2012 National Institutes of Health National Institute on Aging R01 AG042611
Pleiotropic and Interaction Effects on Alzheimer's disease Risk and Progression
Role: Principal Investigator
BYU Funding: $1,318,126 Funding Period: 09/01/2012-12/31/2017

2011 Alzheimer's Association Mentored New Investigator Research Grant
Genetic and Environmental Influences on Rate of Progression of Alzheimer's disease
Role: Principal Investigator
BYU Funding: $149,831 Funding Period: 08/01/11-07/31/14

2010 National Institutes of Health National Institute on Aging R01 AG035083
Use of Endophenotypes in the Search for Alzheimer's disease Risk Genes (A. Goate PI)
Role: Subcontract Principal Investigator
BYU Funding: $97,422 Funding Period: 09/01/2010-08/31/2015

2009 National Institutes of Health National Institute on Aging R01 AG016208
Genomic Search for Susceptibility to Alzheimer's disease (A. Goate PI)
Role: Subcontract Principal Investigator
BYU Funding: $154,319 Funding Period: 09/01/2009-08/31/2011

Extramural Awards and Fellowships

2014 McMillian Award for Excellence in Alzheimer's Disease Research
2012 Charleston Conference on Alzheimer's Fellow
2009 Excellence in Research Oral Presentation Award, NIDDK NMRI
2009 Human Genome Variation and Complex Genome Analysis Travel Award
2008 Human Genome Variation and Complex Genome Analysis Travel Award
2008 Ford Foundation Postdoctoral Fellowship (declined)
2008 International Conference on Alzheimer's disease Travel Fellowship
2008 Hope Center for Neurological Disorders Postdoctoral Fellowhship

2007 NIH Training Grant Fellow T32 MH14677
2007 Human Genome Variation 2007 Poster Presentation Contest Winner
2007 Human Genome Variation and Complex Genome Analysis Travel Award
2007 Alzheimer's Disease Biomarkers Meeting Outstanding Poster Award
2005 Ford Foundation Pre-Doctoral Fellowship
2004 NIH Training Grant Fellow "Genome Analysis Training Program"
1996 Robert C. Byrd Federal Academic Merit Scholarship

Intramural Research Grants (Kauwe PI on all items)

2017 Technology Transfer Grant
2017 Mentored Research Environment Grant, Brigham Young University
2016 Bobbitt Heart Disease Grant
2016 Bobbitt Inflammation Grant
2015 Bobbitt Alzheimer's Disease Grant
2015 Mentored Research Environment Grant, Brigham Young University
2014 Mentored Research Environment Grant, Brigham Young University
2013 BYU Gerontology Program Grant
2013 Mentored Research Environment Grant, Brigham Young University
2012 John A. Widtsoe Grant, Brigham Young University
2012 Mentored Research Environment Grant, Brigham Young University
2012 BYU Gerontology Program Grant
2011 Mentored Research Environment Grant, Brigham Young University
2011 BYU Gerontology Program Grant
2010 Mentored Research Environment Grant, Brigham Young University
2003 Brigham Young University Integrative Biology Department Travel Grant
2002 Brigham Young University Integrative Biology Department Travel Grant

Intramural Awards and Fellowships

2015 BYU Sponsored Research Award
2013 BYU Young Scholar Award
2007 Poletsky Award for Research in Alzheimer's disease
2007 O'Leary Award for Research in Neuroscience Finalist
2003 Brigham Young University Research Presentation Award
2002 D. Elden Beck Natural History Award
2002 Brigham Young University Research Presentation Award
1996 Brigham Young University Full Tuition Academic Scholarship

Editorial Positions

Senior Editor, **Alzheimer's & Dementia**

Ad Hoc Reviewer:
Alzheimer's & Dementia
American Journal of Medical Genetics Part B: Neuropsychiatric Genetics
Archives of Neurology
Archives of General Psychiatry
Bioinformatics
Biological Psychiatry
Brain Imaging and Behavior

Dementia and Geriatric Cognitive Disorders
European Journal of Human Genetics
Future Neurology
Human Molecular Genetics
JAMA Neurology
Medical Principles and Practice
Molecular Ecology
Molecular Psychiatry
Nature Medicine
Neuroscience Letters
Neurobiology of Aging
Neuromolecular Medicine
Neuropsychiatric Genetics
PeerJ
Pharmacogenomics
PLoS ONE
PLoS Genetics
Proceedings of the National Academy of Sciences
Science Translational Medicine
The International Journal of Neuroscience
The Journal of Alzheimer's Disease
The Journal of Neurological Sciences
Translational Psychiatry

Grant Review

Ad Hoc Reviewer:
Alzheimer's Association
Alzheimer's Society UK
Austrian Science Fund
BrightFocus Foundation
Department of Veteran's Affairs
Knight Alzheimer's Disease Research Center
Nathan Shock Center for Excellence in the Basic Biology of Aging
NIH National Institute on Aging Neuroscience Study Section
Parkinson's UK
Swiss National Science Foundation
University of Utah Center on Aging

Consortium Memberships

Alzheimer's Disease Genetics Consortium (Biomarker Group)
Genetic and Environmental Risk in Alzheimer's Disease
Alzheimer's Disease Neuroimaging Initiative (Genetics Core)
Alzheimer's Disease Sequencing Project (Protective Variants Group)

Publications

Total publications: 101 *First/Last Author: 35*

Sims R, SJ van der Lee, AC Naj, C Bellenguez, N Badarinarayan, J Jakobsdottir, et al (including JSK Kauwe) G. D. Schellenberg (2017). "Rare coding variants in PLCG2, ABI3, and TREM2 implicate microglial-mediated innate immunity in Alzheimer's disease." Nat Genet.

Steele, NZ, Carr JS, Bonham LW, Geier EG, Damotte V, Miller ZA, et al (including Kauwe JSK), Yokoyama JS (2017). "Fine-mapping of the human leukocyte antigen locus as a risk factor for Alzheimer disease: A case-control study." PLoS Med **14**(3): e1002272.

Parks, T, Mirabel MM, Kado J, Auckland K, Nowak J, Rautanen A, et al (including Kauwe JSK), Pacific Islands Rheumatic Heart Disease Genetics N (2017). "Association between a

common immunoglobulin heavy chain allele and rheumatic heart disease risk in Oceania." Nat Commun **8**: 14946.

Mukherjee, S, Russell JC, Carr DT, Burgess JD, Allen M, Serie DJ, et al (including Kauwe JSK), Crane PK (2017). "Systems biology approach to late-onset Alzheimer's disease genome-wide association study identifies novel candidate genes validated using brain expression data and Caenorhabditis elegans experiments." Alzheimers Dement.

Matyi, J, Tschanz JT, Rattinger GB, Sanders C, Vernon EK, Corcoran C, et al (including Kauwe JSK), Buhusi M (2017). "Sex Differences in Risk for Alzheimer's Disease Related to Neurotrophin Gene Polymorphisms: The Cache County Memory Study." J Gerontol A Biol Sci Med Sci.

Jun, GR, Chung J, Mez J, Barber R, Beecham GW, Bennett DA, et al (including Kauwe JSK), Farrer LA (2017). "Transethnic genome-wide scan identifies novel Alzheimer's disease loci." Alzheimers Dement.

Huang, KL, Marcora E, Pimenova AA, Di Narzo AF, Kapoor M, Jin SC, et al (including Kauwe JSK), Goate AM (2017). "A common haplotype lowers PU.1 expression in myeloid cells and delays onset of Alzheimer's disease." Nat Neurosci.

Haddick, PC, Larson JL, Rathore N, Bhangale TR, Phung QT, Srinivasan K, et al (including Kauwe JSK), van der Brug M (2017). "A Common Variant of IL-6R is Associated with Elevated IL-6 Pathway Activity in Alzheimer's Disease Brains." J Alzheimers Dis **56**(3): 1037-1054.

Fardo, DW, Katsumata Y, Kauwe JSK, Deming Y, Harari O, Cruchaga C, et al, Nelson PT (2017). "CSF protein changes associated with hippocampal sclerosis risk gene variants highlight impact of GRN/PGRN." Exp Gerontol **90**: 83-89.

Deming, Y, Li Z, Kapoor M, Harari O, Del-Aguila JL, Black K, et al (including Kauwe JSK), Cruchaga C (2017). "Genome-wide association study identifies four novel loci associated with Alzheimer's endophenotypes and disease modifiers." Acta Neuropathol **133**(5): 839-856.

Chapuis, J, Flaig A, Grenier-Boley B, Eysert F, Pottiez V, Deloison G, et al (including Kauwe JSK), Adgc AsDNI (2017). "Genome-wide, high-content siRNA screening identifies the Alzheimer's genetic risk factor FERMT2 as a major modulator of APP metabolism." Acta Neuropathol **133**(6): 955-966.

Anand, S, Barnes JM, Young SA, Garcia DM, Tolley HD, Kauwe JSK and Graves SW (2017). "Discovery and Confirmation of Diagnostic Serum Lipid Biomarkers for Alzheimer's Disease Using Direct Infusion Mass Spectrometry." J Alzheimers Dis **59**: 277-290.

Allen, LB, Taylor FH, Kauwe AI, Larsen T, Hippen AA, Allen M and Kauwe JSK (2017). "Using the Health Belief Model to evaluate Samoan caregiver perceptions for rheumatic heart disease follow-up care." International Journal of Health Promotion and Education **55**(3): 148-157.

Staley, LA, Ebbert MT, Parker S, Bailey M, Alzheimer's Disease Neuroimaging I, Ridge PG, et al, Kauwe JSK (2016). "Genome-wide association study of prolactin levels in blood plasma and cerebrospinal fluid." BMC Genomics **17 Suppl 3**: 436.

Staley, LA, Ebbert MT, Bunker D, Bailey M, Alzheimer's Disease Neuroimaging I, Ridge PG, et al, Kauwe JSK (2016). "Variants in ACPP are associated with cerebrospinal fluid Prostatic Acid Phosphatase levels." BMC Genomics **17 Suppl 3**: 439.

Shah, DJ, Rohlfing F, Anand S, Johnson WE, Alvarez MT, Cobell J, et al (including Kauwe JSK), Graves SW (2016). "Discovery and Subsequent Confirmation of Novel Serum Biomarkers Diagnosing Alzheimer's Disease." J Alzheimers Dis **49**(2): 317-327.

Sassi, C, Ridge PG, Nalls MA, Gibbs R, Ding J, Lupton MK, et al (including Kauwe JSK), Hardy J (2016). "Influence of Coding Variability in APP-Abeta Metabolism Genes in Sporadic Alzheimer's Disease." PLoS One **11**(6): e0150079.

Sassi, C, Nalls MA, Ridge PG, Gibbs JR, Ding J, Lupton MK, et al (including Kauwe JSK), Hardy J (2016). "ABCA7 p.G215S as potential protective factor for Alzheimer's disease." Neurobiol Aging **46**: 235 e231-239.

Ridge, PG, Hoyt KB, Boehme K, Mukherjee S, Crane PK, Haines JL, et al, Kauwe JSK, Alzheimer's Disease Genetics C (2016). "Assessment of the genetic variance of late-onset Alzheimer's disease." Neurobiol Aging **41**: 200 e213-220.

Perry, CE, Gale SD, Erickson L, Wilson E, Nielsen B, Kauwe J and Hedges DW (2016). "Seroprevalence and Serointensity of Latent Toxoplasma gondii in a Sample of Elderly Adults With and Without Alzheimer Disease." Alzheimer Dis Assoc Disord **30**(2): 123-126.

Oldoni, E, Fumagalli GG, Serpente M, Fenoglio C, Scarioni M, Arighi A, et al (including Kauwe JSK), Galimberti D (2016). "PRNP P39L Variant is a Rare Cause of Frontotemporal Dementia in Italian Population." J Alzheimers Dis **50**(2): 353-357.

Mez, J, Mukherjee S, Thornton T, Fardo DW, Trittschuh E, Sutti S, et al (including Kauwe JSK), Alzheimer's Disease Genetics C (2016). "The executive prominent/memory prominent spectrum in Alzheimer's disease is highly heritable." Neurobiol Aging **41**: 115-121.

Kauwe, JS and Goate A (2016). "Genes for a 'Wellderly' Life." Trends Mol Med **22**(8): 637-639.

Jun, G, Ibrahim-Verbaas CA, Vronskaya M, Lambert JC, Chung J, Naj AC, et al (including Kauwe JSK), Farrer LA (2016). "A novel Alzheimer disease locus located near the gene encoding tau protein." Mol Psychiatry **21**(1): 108-117.

Hippen, AA, Ebbert MT, Norton MC, Tschanz JT, Munger RG, Corcoran CD and Kauwe JS (2016). "Presenilin E318G variant and Alzheimer's disease risk: the Cache County study." BMC Genomics **17 Suppl 3**: 438.

Ebbert, MT, Wadsworth ME, Staley LA, Hoyt KL, Pickett B, Miller J, et al (including Kauwe JSK), Ridge PG (2016). "Evaluating the necessity of PCR duplicate removal from next-generation sequencing data and a comparison of approaches." BMC Bioinformatics **17 Suppl 7**: 239.

Ebbert, MT, Staley LA, Parker J, Parker S, Bailey M, Alzheimer's Disease Neuroimaging I, et al, Kauwe JSK (2016). "Variants in CCL16 are associated with blood plasma and cerebrospinal fluid CCL16 protein levels." BMC Genomics **17 Suppl 3**: 437.

Ebbert, MT, Boehme KL, Wadsworth ME, Staley LA, Alzheimer's Disease Neuroimaging I, Alzheimer's Disease Genetics C, et al, Kauwe JS (2016). "Interaction between variants in CLU and MS4A4E modulates Alzheimer's disease risk." Alzheimers Dement **12**(2): 121-129.

Deming, Y, Xia J, Cai Y, Lord J, Holmans P, Bertelsen S, et al (including Kauwe JSK), Alzheimer's Disease Neuroimaging I (2016). "A potential endophenotype for Alzheimer's disease: cerebrospinal fluid clusterin." Neurobiol Aging **37**: 208 e201-209.

Deming, Y, Xia J, Cai YF, Lord J, Del-Aguila JL, Fernandez MV, et al (including Kauwe JSK), Adni (2016). "Genetic studies of plasma analytes identify novel potential biomarkers for several complex traits." Scientific Reports **6**.

Chen, T, Moore TM, Ebbert MT, McVey NL, Madsen SR, Hallowell DM, et al (including Kauwe JSK), Thomson DM (2016). "Liver kinase B1 inhibits the expression of inflammation-related genes postcontraction in skeletal muscle." J Appl Physiol (1985) **120**(8): 876-888.

Allen, GI, Amoroso N, Anghel C, Balagurusamy V, Bare CJ, Beaton D, et al (including Kauwe JSK), Alzheimer's Disease Neuroimaging I (2016). "Crowdsourced estimation of cognitive decline and resilience in Alzheimer's disease." Alzheimers Dement **12**(6): 645-653.

Wang, LS, Naj AC, Graham RR, Crane PK, Kunkle BW, Cruchaga C, et al (including Kauwe JSK), Yu L (2015). "Rarity of the Alzheimer disease-protective APP A673T variant in the United States." JAMA Neurol **72**(2): 209-216.

Saykin, AJ, Shen L, Yao X, Kim S, Nho K, Risacher SL, et al (including Kauwe JSK), Alzheimer's Disease Neuroimaging I (2015). "Genetic studies of quantitative MCI and AD phenotypes in ADNI: Progress, opportunities, and plans." Alzheimers Dement **11**(7): 792-814.

Ostergaard, SD, Mukherjee S, Sharp SJ, Proitsi P, Lotta LA, Day F, et al (including Kauwe JSK), Scott RA (2015). "Associations between Potentially Modifiable Risk Factors and Alzheimer Disease: A Mendelian Randomization Study." PLoS Med **12**(6): e1001841; discussion e1001841.

Mukherjee, S, Walter S, Kauwe JS, Saykin AJ, Bennett DA, Larson EB, et al, Alzheimer's Disease Genetics C (2015). "Genetically predicted body mass index and Alzheimer's disease-related phenotypes in three large samples: Mendelian randomization analyses." Alzheimers Dement **11**(12): 1439-1451.

Lythgoe, C, Perkes A, Peterson M, Schmutz C, Leary M, Ebbert MT, et al, Kauwe JS (2015). "Population-based analysis of cholesteryl ester transfer protein identifies association between I405V and cognitive decline: the Cache County Study." Neurobiol Aging **36**(1): 547 e541-543.

Ebbert, MT, Ridge PG and Kauwe JS (2015). "Bridging the gap between statistical and biological epistasis in Alzheimer's disease." Biomed Res Int **2015**: 870123.

Shen, L, Thompson PM, Potkin SG, Bertram L, Farrer LA, Foroud TM, et al (including Kauwe JSK), Alzheimer's Disease Neuroimaging I (2014). "Genetic analysis of quantitative phenotypes in AD and MCI: imaging, cognition and biomarkers." Brain Imaging Behav **8**(2): 183-207.

Sharp, AR, Ridge PG, Bailey MH, Boehme KL, Norton MC, Tschanz JT, et al, Kauwe JSK, Alzheimer's Disease Neuroimaging I (2014). "Population substructure in Cache County, Utah: the Cache County study." BMC Bioinformatics **15 Suppl 7**: S8.

Ridge, PG, Maxwell TJ, Foutz SJ, Bailey MH, Corcoran CD, Tschanz JT, et al, Kauwe JS (2014). "Mitochondrial genomic variation associated with higher mitochondrial copy number: the Cache County Study on Memory Health and Aging." BMC Bioinformatics **15 Suppl 7**: S6.

Peterson, D, Munger C, Crowley J, Corcoran C, Cruchaga C, Goate AM, et al, Kauwe, JSK. (2014). "Variants in PPP3R1 and MAPT are associated with more rapid functional decline in Alzheimer's disease: the Cache County Dementia Progression Study." Alzheimers Dement **10**(3): 366-371.

Naj, AC, Jun G, Reitz C, Kunkle BW, Perry W, Park YS, et al (including Kauwe JSK), Yu L (2014). "Effects of multiple genetic loci on age at onset in late-onset Alzheimer disease: a genome- wide association study." JAMA Neurol **71**(11): 1394-1404.

Kauwe, JS, Bailey MH, Ridge PG, Perry R, Wadsworth ME, Hoyt KL, et al, Goate AM (2014). "Genome-wide association study of CSF levels of 59 alzheimer's disease candidate

proteins: significant associations with proteins involved in amyloid processing and inflammation." PLoS Genet **10**(10): e1004758.

Harari, O, Cruchaga C, Kauwe JS, Ainscough BJ, Bales K, Pickering EH, et al, Alzheimer's Disease Neuroimaging I (2014). "Phosphorylated tau-Abeta42 ratio as a continuous trait for biomarker discovery for early-stage Alzheimer's disease in multiplex immunoassay panels of cerebrospinal fluid." Biol Psychiatry **75**(9): 723-731.

Gross, AL, Sherva R, Mukherjee S, Newhouse S, Kauwe JS, Munsie LM, et al, Consortium ADG (2014). "Calibrating longitudinal cognition in Alzheimer's disease across diverse test batteries and datasets." Neuroepidemiology **43**(3-4): 194-205.

Escott-Price, V, Bellenguez C, Wang LS, Choi SH, Harold D, Jones L, et al (including Kauwe JSK), Cardiovascular Health S (2014). "Gene-wide analysis detects two new susceptibility genes for Alzheimer's disease." PLoS One **9**(6): e94661.

Ebbert, MT, Wadsworth ME, Boehme KL, Hoyt KL, Sharp AR, O'Fallon BD, et al (including Kauwe JSK), Ridge PG (2014). "Variant Tool Chest: an improved tool to analyze and manipulate variant call format (VCF) files." BMC Bioinformatics **15 Suppl 7**: S12.

Ebbert, MT, Ridge PG, Wilson AR, Sharp AR, Bailey M, Norton MC, et al, Kauwe JS (2014). "Population-based analysis of Alzheimer's disease risk alleles implicates genetic interactions." Biol Psychiatry **75**(9): 732-737.

Dayton, P, Feilmeier M, Hirschi J, Kauwe M and Kauwe JS (2014). "Observed changes in radiographic measurements of the first ray after frontal plane rotation of the first metatarsal in a cadaveric foot model." J Foot Ankle Surg **53**(3): 274-278.

Dayton, P, Kauwe M, Kauwe JS, Feilmeier M and Hirschi J (2014). "Observed changes in first metatarsal and medial cuneiform positions after first metatarsophalangeal joint arthrodesis." J Foot Ankle Surg **53**(1): 32-35.

Cruchaga, C, Karch CM, Jin SC, Benitez BA, Cai Y, Guerreiro R, et al (including Kauwe JSK), Goate AM (2014). "Rare coding variants in the phospholipase D3 gene confer risk for Alzheimer's disease." Nature **505**(7484): 550-554.

Cruchaga, C, Ebbert MT and Kauwe JS (2014). "Genetic discoveries in AD using CSF amyloid and tau." Curr Genet Med Rep **2**(1): 23-29.

Cao, Y, Wei P, Bailey M, Kauwe JS, Maxwell TJ and Alzheimer's Disease Neuroimaging I (2014). "A versatile omnibus test for detecting mean and variance heterogeneity." Genet Epidemiol **38**(1): 51-59.

Benitez, BA, Jin SC, Guerreiro R, Graham R, Lord J, Harold D, et al (including Kauwe JSK), Cruchaga C (2014). "Missense variant in TREML2 protects against Alzheimer's disease." Neurobiol Aging **35**(6): 1510 e1519-1526.

Allen, M, Kachadoorian M, Quicksall Z, Zou F, Chai HS, Younkin C, et al (including Kauwe JSK), Ertekin-Taner N (2014). "Association of MAPT haplotypes with Alzheimer's disease risk and MAPT brain gene expression levels." Alzheimers Res Ther **6**(4): 39.

Ridge, PG, Mukherjee S, Crane PK, Kauwe JS and Alzheimer's Disease Genetics C (2013). "Alzheimer's disease: analyzing the missing heritability." PLoS One **8**(11): e79771.

Ridge, PG, Koop A, Maxwell TJ, Bailey MH, Swerdlow RH, Kauwe JS, et al, Alzheimer's Disease Neuroimaging I (2013). "Mitochondrial haplotypes associated with biomarkers for Alzheimer's disease." PLoS One **8**(9): e74158.

Ridge, PG, Ebbert MT and Kauwe JS (2013). "Genetics of Alzheimer's disease." Biomed Res Int **2013**: 254954.

Lambert, JC, Ibrahim-Verbaas CA, Harold D, Naj AC, Sims R, Bellenguez C, et al (including Kauwe JSK), Amouyel P (2013). "Meta-analysis of 74,046 individuals identifies 11 new susceptibility loci for Alzheimer's disease." Nat Genet **45**(12): 1452-1458.

Kauwe, JS, Ridge PG, Foster NL and Cannon-Albright LA (2013). "Strong evidence for a genetic contribution to late-onset Alzheimer's disease mortality: a population-based study." PLoS One **8**(10): e77087.

Guerreiro, R, Wojtas A, Bras J, Carrasquillo M, Rogaeva E, Majounie E, et al (including Kauwe JSK), Alzheimer Genetic Analysis G (2013). "TREM2 variants in Alzheimer's disease." N Engl J Med **368**(2): 117-127.

Gonzalez Murcia, JD, Schmutz C, Munger C, Perkes A, Gustin A, Peterson M, et al, Kauwe JS (2013). "Assessment of TREM2 rs75932628 association with Alzheimer's disease in a population-based sample: the Cache County Study." Neurobiol Aging **34**(12): 2889 e2811- 2883.

Cruchaga, C, Kauwe JS, Harari O, Jin SC, Cai Y, Karch CM, et al, Goate AM (2013). "GWAS of cerebrospinal fluid tau levels identifies risk variants for Alzheimer's disease." Neuron **78**(2): 256-268.

Ridge, PG, Maxwell TJ, Corcoran CD, Norton MC, Tschanz JT, O'Brien E, et al, Kauwe JS (2012). "Mitochondrial genomic analysis of late onset Alzheimer's disease reveals protective haplogroups H6A1A/H6A1B: the Cache County Study on Memory in Aging." PLoS One **7**(9): e45134.

Houston, DD, Elzinga DB, Maughan PJ, Smith SM, Kauwe JS, Evans RP, et al, Shiozawa DK (2012). "Single nucleotide polymorphism discovery in cutthroat trout subspecies using genome reduction, barcoding, and 454 pyro-sequencing." BMC Genomics **13**: 724.

Gerrish, A, Russo G, Richards A, Moskvina V, Ivanov D, Harold D, et al (including Kauwe JSK), Williams J (2012). "The role of variation at AbetaPP, PSEN1, PSEN2, and MAPT in late onset Alzheimer's disease." J Alzheimers Dis **28**(2): 377-387.

Cruchaga, C, Kauwe JS, Nowotny P, Bales K, Pickering EH, Mayo K, et al, Goate AM (2012). "Cerebrospinal fluid APOE levels: an endophenotype for genetic studies for Alzheimer's disease." Hum Mol Genet **21**(20): 4558-4571.

Overton, ET, Kauwe JS, Paul R, Tashima K, Tate DF, Patel P, et al, Clifford DB (2011). "Performances on the CogState and standard neuropsychological batteries among HIV patients without dementia." AIDS Behav **15**(8): 1902-1909.

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Collaborating Publications

Total collaborating publications: 38

Guo, S, Lai C, Wu C, Cen G and Alzheimer's Disease Neuroimaging I (2017). "Conversion Discriminative Analysis on Mild Cognitive Impairment Using Multiple Cortical Features from MR Images." Front Aging Neurosci **9**: 146.

Karch, CM, Ezerskiy LA, Bertelsen S, Alzheimer's Disease Genetics C and Goate AM (2016). "Alzheimer's Disease Risk Polymorphisms Regulate Gene Expression in the ZCWPW1 and the CELF1 Loci." PLoS One **11**(2): e0148717.

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Alzheimer's disease using statistical shape models." Neuroimage **59**(3): 2155-2166.

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Hudson, G, Sims R, Harold D, Chapman J, Hollingworth P, Gerrish A, et al (including Kauwe JSK), Consortium G (2012). "No consistent evidence for association between mtDNA variants and Alzheimer disease." Neurology **78**(14): 1038-1042.

Hollingworth, P, Sweet R, Sims R, Harold D, Russo G, Abraham R, et al (including Kauwe JSK), Williams J (2012). "Genome-wide association study of Alzheimer's disease with psychotic symptoms." Mol Psychiatry **17**(12): 1316-1327.

Hamilton, G, Killick R, Genetic, Environmental Risk for Alzheimer's Disease C, Translational Genomics Research Institute C, Lambert JC, et al (including Kauwe JSK), Wade-Martins R (2012). "Functional and genetic analysis of haplotypic sequence variation at the nicastrin genomic locus." Neurobiol Aging **33**(8): 1848 e1841-1813.

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Eskildsen, SF, Coupe P, Fonov V, Manjon JV, Leung KK, Guizard N, et al (including Kauwe JSK), Alzheimer's Disease Neuroimaging I (2012). "BEaST: brain extraction based on nonlocal segmentation technique." Neuroimage **59**(3): 2362-2373.

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Carmichael, O, Schwarz C, Drucker D, Fletcher E, Harvey D, Beckett L, et al (including Kauwe JSK), Alzheimer's Disease Neuroimaging I (2010). "Longitudinal changes in white matter disease and cognition in the first year of the Alzheimer disease neuroimaging initiative." Arch Neurol **67**(11): 1370-1378.

Book Chapters

1. **Kauwe JSK**, AM Goate. Molecular genetics of Alzheimer's disease. In: Dawburn D, Allen SJ, eds. *Neurobiology of Alzheimer's Disease.* 3rd ed. Oxford; New York: Oxford University Press, 2007:59–79

2. Cruchaga C, **Kauwe JSK**, AM Goate. Alzheimer's disease. In: Nurnberger JI, Berrettini WH, eds. *Principles of Psychiatric Genetics.* 1st ed. New York; New York; Cambridge University Press; 2010:371-381

***Invited* Seminars and Oral Presentations (54)**

College of Life Sciences Seminar. Universidad Interamericana de Puerto Rico. San Germain, Puerto Rico. 2016.

Molecular Biology Seminar. Universidad Central del Caribe. Bayamon, Puerto Rico. 2016.

Forum Speaker, Brigham Young University. Provo, UT 2016. Alzheimer's Disease: Myths, Facts, and the Future.

International Imaging Genetics Conference, Irvine, CA 2016. New approaches to understanding heritability in Alzheimer's disease.

Biotechnology and Bioinformatics Symposium, Key Note Speaker, Provo, UT 2015. Understanding the Genetics of Complex Traits.

Genetics and Genomics Sciences Department Seminar, Mount Sinai School of Medicine, Manhattan, NY 2015. Novel approaches to identifying protective variants for Alzheimer's disease.

NIH-NIA Alzheimer's disease Summit, Bethesda, MA 2015, Alzheimer's resilience.

Charleston Conference on Alzheimer's Disease Plenary Speaker. Charleston, SC 2015. Novel approaches to identifying protective variants for Alzheimer's disease.

Epidemiology Center Seminar. Utah State University, Logan UT 2014. Linkage and WGS approaches to finding protective variants in Alzheimer's disease.

Neuroscience Series. Mayo Clinic, Jacksonville, FL 2014. The genetic basis of Alzheimer's disease: What is left and how will we find it?

Graduation Key Note Speaker. Molokai High School, Ho'olehua, HI 2014.

Perry C, Hedges DW, D R, Nielsen B, Larson MJ, Kauwe JS, Call VR. Associations between telomere length and allelic variation in two groups of older adults. Gerontological Society of American meeting. Denver, Colorado. 2014 .

Genetics Seminar. Utah State University, Logan UT 2013. Using whole genome and whole exome sequencing to understand the genetics of Alzheimer's disease.

Alzheimer's Association Education Conference. Logan, UT 2013. Debunking Myths in Alzheimer's disease.

Alzheimer's Association Professional's Workshop. Ogden, UT 2013. Alzheimer's disease genetics: implications for diagnosis and treatment.

International Society for Magnetic Resonance Imaging Annual Meeting. Salt Lake City, UT 2013. Genetics and Molecular Biology of Alzheimer's disease.

Alzheimer's Association Education Conference. St. George, UT 2013. Recent advances in diagnosis and treatment of Alzheimer's disease.

Jensen JL, Kauwe JS. A Constructivist Model in Introductory Biology. American Association for the Advancement of Science - Vision and Change. Washington, DC. 2013.

Shiozawa DK, Houston D, Evans RP, Maughan PJ, Davis N, Page J, Unmack P, Elzinga D, Kauwe JS. Greenback trout genetics and meristics studies. Greenback Cutthroat Trout Summit. Denver, Colorado.

Alzheimer's Association Professional's Workshop. St. George, UT 2013. Genetics and Alzheimer's disease.

Charleston Conference on Alzheimer's Disease. Charleston, SC 2013. A novel, family-based approach to identifying Alzheimer's disease risk and protective genes.

Shiozawa DK, Houston DD, Evans RP, Kauwe JS, Maughan PJ, Smith SM, Elzinga DB, Stinger RB. Discovery of single nucleotide polymorphisms (SNPs) in cutthroat trout subspecies using next- generation sequencing technology. 2012 Annual Meeting Western Division of the American Fishery Society. Jackson, Wyoming. 2012 .

Alzheimer's Association Education Conference. Park City, UT 2012. Recent advances in diagnosis and treatment of Alzheimer's disease.

Alzheimer's Association Professional's Workshop. Salt Lake City, UT 2012. Genetics and Alzheimer's disease.

Continuing Medical Education Seminar. Peace Health Ketchikan Medical Center, Ketchikan, AK 2012. Genetics and proteomics for understanding and diagnosing Alzheimer's disease.

Biology Seminar. Maryville University, Webster Groves, MO 2011. The present and future of Genetic Studies of Alzheimer's disease.

Alzheimer's Association Dementia Care Conference. Orem, UT 2011. Genetics and Alzheimer's disease.

Biomedical Research Apprenticeship Program Closing Meeting. Washington University School of Medicine, St. Louis, MO 2011. Keynote speaker.

Alzheimer's Association International Conference on Alzheimer's Disease. Paris, France 2011. Genome-wide association studies of cerebrospinal fluid biomarkers.

American Academy of Neurologists National Meeting. Honolulu, HI 2011. Fluid biomarkers for early detection and diagnosis of Alzheimer's disease.

Molecular Life Sciences Symposium. Brigham Young University, Provo, UT 2011. Progressing from genetic association to causation in complex human disease.

Epidemiology Seminar. Utah State University, Logan, UT 2011. Aggregate genetic risk for AD in the Cache County Study.

Research Revolution. Orem Public Library, Orem, UT 2011. The genetics basis of Alzheimer's disease.

AP Biology and Chemistry Seminar. Wasatch High School, Heber UT 2010. Bioinformatics: Applications and Career Opportunities.

LDS Life Science Research Symposium. Park City, UT 2010. An endophenotype-based approach to understanding the genetics of Alzheimer's disease.

Epidemiology Seminar. Utah State University, Logan, UT 2010. Using biomarkers to generate biological hypotheses for disease risk associations.

Upward Bound. Utah Valley University, Orem, UT 2010. Paths to a Career in Science. Research Revolution. Orem Public Library, Orem, UT 2010. Understanding the Genetics of Alzheimer's disease.

Human Genetics Series. University of Texas, Houston, Texas Medical Center School of Public Health, Houston TX 2010. SNPs associated with cerebrospinal fluid tau levels influence rate of cognitive decline in Alzheimer's disease.

AP Biology and Chemistry Seminar. Walden High School, Provo UT 2009. Bioinformatics: Applications and Career Opportunities.

Network of Minority Research Investigators National Institute of Diabetes and Digestive and Kidney Disease West Regional Meeting. San Diego, CA 2009. Using cerebrospinal fluid amyloid-beta levels to understand genetic risk for Alzheimer's disease.

Biology Department Seminar. University of Hawaii, Honolulu, HI 2008. Alzheimer's disease, Genome-wide association studies and endophenotypes.

Biology Colloquium. California State University, Northridge, Northridge, CA 2008. Issues and progress in genetic studies of Alzheimer's disease.

Brain Institute Seminar. University of Utah, Salt Lake City, UT 2008. Use of cerebrospinal fluid biomarkers as endophenotypes for genetic studies of Alzheimer's disease.

Biology Department Seminar. Brigham Young University, Provo, UT 2008. Variation in *MAPT* shows association with CSF tau levels, tau expression and age at onset of Alzheimer's disease.

Research Staff Seminar. Banner Alzheimer's Institute, Phoenix, AZ 2007. Genetic and Proteomic approaches for using cerebrospinal fluid biomarkers to study Alzheimer's disease.

Neurogenomics Group Meeting. Translational Genomics, Phoenix, AZ 2007. SNPs previously reported to show association with risk for AD are associated CSF Aβ levels.

Psychiatry Department Seminar. Washington University School of Medicine, St. Louis, MO 2007. Use of cerebrospinal fluid Aβ levels as endophenotype for late-onset Alzheimer's disease.

BioMedRAP Lecture Series. Washington University, St. Louis, MO 2007. Candidate gene screen identifies polymorphisms associated with AD and CSF Aβ levels.

O'Leary Award for Research in Neuroscience Finalists Seminar. Washington University, St. Louis, MO 2007. Use of cerebrospinal fluid Aβ levels as endophenotype for late–onset

Alzheimer's disease.

Public Education Seminar. Phoenix, AZ 2007. Clinical implications of genetic research on Alzheimer's disease.

Microbiology and Molecular Biology Department Seminar. Brigham Young University, Provo, UT 2006. Use of cerebrospinal fluid Aβ levels as endophenotype for late–onset Alzheimer's disease leads to the identification of a causal mutation in PSEN1.

Biology Department Seminar. Utah Valley State College, Orem, UT 2006. Using cerebrospinal fluid amyloid–β levels as an endophenotype to study the genetics of late–onset AD.

North American Benthological Society Annual. Pittsburgh, PA 2002. Using DNA Markers to Investigate Inter–basin Relationships and Dispersal of Stoneflies.

Oral Presentations (8)

Alzheimer's Association International Conference Global Advances Meeting, Toronto, Canada 2016. Protective variants in Alzheimer's Disease.

Alzheimer's Association International Conference. Boston, MA 2013. Association of genetic variants with cerebrospinal fluid protein levels of ACE, CCL2, IL6R and MMP3 risk for Alzheimer's disease.

International Conference on Alzheimer's Disease. Honolulu, HI 2010. Validating predicted biological effects of Alzheimer's disease associated SNPs using CSF biomarker levels.

International Conference on Alzheimer's Disease. Chicago, IL 2008. Variation in MAPT is associated with cerebrospinal fluid tau levels in the presence of amyloid deposition.

American Society of Human Genetics Annual Meetings. New Orleans, LA 2006. Association study of cerebrospinal fluid amyloid–β levels with late–onset Alzheimer's disease associated polymorphisms.

American Society of Human Genetics Annual Meetings. Salt Lake City, UT 2005. A Scan of Chromosome 10 Identifies Novel Candidate Genes Showing Strong Association to Late–Onset Alzheimer's Disease.

Conference of Ford Fellows. Arlington, VA 2005. Evolution–based Haplotype Analysis Identifies Haplotype Groups with Strong Association to Late–Onset Alzheimer's Disease.

Genetics Analysis Workshop 14. Noordwijkerhout, Netherlands 2004. The efficacy of microsatellites vs. SNPs for resolving population structure.

North American Benthological Society Annual Meetings. Athens, GA 2003. Phylogenetic and Nested Clade Analysis of the Stonefly *Pteronarcys californica* in the Western United States.

Mentoring Activities (thru August 2017)

Graduate Students (Advisor):

Perry Ridge	PhD	2013
Mark Ebbert	PhD	2014
Ivan Arano	MS	2015
Ciarah Cook	PhD	2015 – Present

Lyndsay Staley	MS	2016 – Present
Josue Gonzalez	PhD	2016 – Present
John Allen	MS	2017 – Present

Graduate Students (Committee Member):

Nina Laitinen	MS	2011
Whitney Hayes	PhD	2012 – Present
Sun Yeong Oh	MS	2012 – 2015
Katrina Hurst	PhD	2013 – Present
Spencer Ingley	PhD	2015
Justin Page	PhD	2015
Marcus Stucki	MS	2015 – Present

Summary of Undergraduate Student Mentoring: (121 Students Total)

#Ben Ainscough
***Alan Alohikea**
#John Allen
Alex Allred
Michael Arntsen
MacKenzie Arrington
Taylor Avei
***#Matthew Bailey**
#Kaitlyn Bell Hoyt
Hilary Benedick
Aaron Biehl
Gage Black
***#Kevin Boehme**
Josh Browning
#Daniel Bunker
***#Devan Bursev**
Moroni Chalita
***Jesse Cobell**
Cassidy Cook
Ciarah Cook
***Tanner Cox**
***Kristen Crofts**
Francisco Darquea
***#Brian Davis**
Adam DeMello
Shane Dooley
Ashlee Ebbert
***Ryan Egbert**
***Spencer Ewert**
***Matthew Fabiszak**
JD Falslev
Meganne Ferrel
Jake Fitisemanu
Kenisi Fonoimoana
***#Spencer Foutz**
Harrison Garrett
***!#Josue Murcia Gonzalez**
***#Aaron Gustin**
***Elizabeth Guy**
Mike Hague
Channing Hancock
Adam Hansen
Jeremy Harris
Alex Hatch
***Grace Hawkins**
Nicholas Heimann
#!Ariel Hippen**
Parker Hollingsworth
Jeremy Hunt
Todd Jaramillo
***Samantha Jensen**
Matthew Johnson
Sarah Karlinsey
Curtis Killpack
Nathan Killpack
Jackson King
***Krista Klinger**
In Kwon
Annaleah Larson
Lelann Latu
#Wayne Latu
***#Mo Lee**
Keoki Leong
Lia Ludlam
Katherine McFarlane
Tasha McGhie
#David McKean
***Miles McKee**
Lauren McKinnon
Ailana Meyer
Ryan Miller
Jeff Mortensen
***Tyler Mower**
***!#Caitlin Munger Lythgoe**
Orlando Negron
Heankel Oliveros
Maveni Palu
#Joshua Parker
***#Sheradyn Parker**
***#David Patty**
Lauren Pennington
#Ammon Perkes
#Rachel Perry
***!David Peterson**
***#Michael Peterson**
Patton Pettijohn
#Brandon Pickett
Lucas Pinto
Calvin Quigley
***Keni Reid**
***#Frederick Rohlfing**
Ryan Rupper
Jordan Salmon
Iuliia Sambur
***!#Cameron Schmutz**
Hunter Schone
***Victoria Scott**
***Emily Sears**
Robert Seymour
!#Aaron Sharp
Aaron Simmons
Scott Smith
***Brandon Soelberg**
Chad Sorenson
***Brooke Spencer**
Sarah Spendlove
!*#Lyndsay Staley
***#Ryan Stinger**
Casey Stinnett
Chase Stolworthy
Billy Strong
#Manti Su'a
Trent Tipton
***Eleni Tukuafu**
***Taylor Turnbull**
Elizabeth Vance
#*Mark Wadsworth
Tyler Weenig
Michelle Wilkins
Austin Wright
***Sage Wright**

***BYU Undergraduate Research Award Recipient (40)**
!First Author on a Manuscript (6 students on 7 manuscripts)
#Co-author on a Manuscript (30 students on 33 manuscripts)

Other Teaching and Mentoring Activities

Associate Director, BYU Rheumatic Relief Internship Program 2013-present

This internship program provides pre-professional clinical, educational and research opportunities for BYU students from all disciplines across campus, not just my own department. I have been involved in mentoring students in each of these three areas as well as overseeing the preparatory course required for participation in the internship. More than thirty BYU students* have been involved in the program. In addition, I have helped facilitate interactions with health professionals in the USA and Samoa. Over 20,000 Samoan children, ages 5 to 15, have been educated and screened by the BYU Rheumatic Relief Internship Program. Additional details can be found on our website.

This program has resulted in excellent research products (see below) as well as an article recently highlighted in the New York Times.

1. Parks, T., M. M. Mirabel, J. Kado, K. Auckland, J. Nowak, A. Rautanen, A. J. Mentzer, E. Marijon, X. Jouven, M. L. Perman, T. Cua, **J. K. Kauwe**, J. B. Allen, H. Taylor, K. J. Robson, C. M. Deane, A. C. Steer, A. V. S. Hill and N. Pacific Islands Rheumatic Heart Disease Genetics (2017). "Association between a common immunoglobulin heavy chain allele and rheumatic heart disease risk in Oceania." Nat Commun 8: 14946. (IF: 12.124; Cited:0)

2. Allen, L. B., F. H. Taylor, A. I. Kauwe, T. Larsen, **A. A. Hippen**, M. Allen and J. S. K. Kauwe (2017). "Using the Health Belief Model to evaluate Samoan caregiver perceptions for rheumatic heart disease follow-up care." International Journal of Health Promotion and Education **55**(3): 148-157. (IF: 0.57 Cited: 0)

***Mentored Students, BYU Rheumatic Relief Internship Program**

Name	Major
Mitchell Adams	Physiology & Developmental Biology
John Allen	Biology
Yvonne Allsop	Public Health
Derek Arrington	Physiology & Developmental Biology
MacKenzie Arrington	Human Development
Taylor Avei	Biology
Blake Barkdull	Division of Continuing Education
Brandon Barkdull	Communications
Gage Black	Bioinformatics
Ciarah Cook	Biology
John Cook	Physiology & Developmental Biology
Rachel Densley	Physiology & Developmental Biology
Robert Dickerson	Athletic Training
Timothy Gardner	Neuroscience
Bayley Goldsberry	English
Lelann Latu	Exercise Science
Chelsea Lautaha	Health Promotion
Matthew McWilliams	Pre-management Core
Ryan Moore	Physiology & Developmental Biology
Spencer Nakamoto	Exercise Science
Ryan Nash	Health Science
Keni Reid	Neuroscience

Kaleia Smaldone	Dietetics pre-major
Clayn Smith	Exercise Science
Brooke Spencer	Public Health
Alexis Stout	Genetics Genomics and Biotechnology

Extramural Citizenship Activities (Academic)

2017-Present	Alzheimer's Assoc. International Conference Scientific Program Committee
2014-Present	Alzheimer's Disease Big Data DREAM Challenge 1 Scientific Lead
2015	Alzheimer's Association International Conference Abstract Reviewer
2014	Completed Tenure Letter for Washington University School of Medicine
2014	Alzheimer's Disease Big Data DREAM Challenge 1 Scientific Lead
2014	Alzheimer's Disease Big Data DREAM Challenge 1 Scientific Advisory Board
2014	Alzheimer's Association International Conference Abstract Reviewer
2013	Alzheimer's Association International Conference Session Chair
2013	Alzheimer's Association International Conference Abstract Reviewer
2013	Moderator for the Utah Conference for Undergraduate Research
2013	Completed Tenure Letter for Washington University School of Medicine
2012	Biotechnology and Bioinformatics Symposium Program Committee
2012	Alzheimer's Association International Conference Session Chair
2012	Alzheimer's Association International Conference Abstract Reviewer
2007	NIH Genetics of Alzheimer's Disease Planning Meeting Participant
2006	Representative of Washington University at the WCBSURC
2006	Poster Judge at the WCBSURC
2005	Representative of Washington University at CIRTL conference

Extramural Citizenship Activities (Mentoring/Outreach)

2017	Flats ecology fieldtrip, Molokai High School, Ho'olehua, HI
2016	Advising and lectures for students at Molokai High School, Ho'olehua, HI
2014	Presentations on Careers in Science, Vernal Middle School, Vernal, UT
2014	Advising and lectures for students at Molokai High School, Ho'olehua, HI
2013	Advising and lectures for students at Kamehameha Schools, Pukalani, HI
2013	Advising and lectures for students at Molokai High School, Ho'olehua, HI
2013	Hand in Hand Outdoors Board Member: Science Education Advisor
2010	Advising session for students at Molokai High School, Ho'olehua, HI
2010	Advising and lectures for students at Wasatch High School, Heber, UT
2009	Advising and lectures for students at Walden High School, Provo, UT
2009-2011	Queen's Center (for Pacific Islander Health) Steering Committee
2008	Managing Mentoring Relationships Seminar at WUSM, St. Louis, MO
2008	Advising session for students at Molokai High School, Ho'olehua, HI
2008	Advising with Minority Access to Research Careers students at UH
2008	Advising with Minority Access to Research Careers students at CSUN
2004–2008	Washington University DBBS Diversity Steering Committee
2003–2004	Young Scientist Program Evolution Teaching Team Member
2002	Utah High School Association Science Fair Judge

Intramural Citizenship Activities

2016 - Present	Associate Chair, Department of Biology

2013 - 2014	Special Committee for the University Council
2012 - 2013	John A. Widtsoe Grant Reviewer
2012 - 2013	Bioinformatics Faculty Search Committee Chair
2011 - Present	Undergraduate Curriculum and Mentoring Committee
2010 - 2017	Bioinformatics Program Coordinator
2010	Undergraduate Curriculum and Mentoring Committee Chair
2010	Computational Biology Faculty Search Committee Chair
2009	ORCA and MEG Grant Reviewer
2009	Science Education Faculty Search Committee Member
2009 - Present	Freshman Admissions Application Reader
2009	Departmental Curriculum Committee
2009	College Research Committee
2000 - 2003	BYUGSA Grant Review Board

Languages

English	Fluent, native speaker
Japanese	Competent speaker, basic level of reading and writing

Media

Radio:

Alzheimer Research – Matt Townsend Show (BYU Radio)
TREM2 and Other Alzheimer's disease progress (BYU Radio MP3)

Interviews:

$3 Million Grant Awarded to Utah Organizations for Alzheimer's Research (Good4Utah)
Evening News Interview with Dr. Kauwe (KUTV 2News)
BYU Researchers discover New Alzheimer's risk Gene (KSL News)
Loss of function in Rab10 gene cuts Alzheimer's risk by up to 40%

Articles:

Scientists Link a Gene Mutation to Rheumatic Heart Disease
Alzheimer's Disease Facts and the Future (BYU Forum)
Collaboration Boosts Science Education (The Molokai Dispatch)
Tau Timing: New Findings on Disease Progression, Clearance (Alzheimer Research Forum)
BYU Part of Team Finding Answers to Alzheimer's (Deseret News)
HIV-Related Memory Loss Linked to Alzheimer's Protein (Science Daily)
BYU Researchers find genes that may unlock mystery to Alzheimer's disease (Deseret News)
BYU Team Links Genes to Alzheimer's Disease (The Daily Herald)
Kauwe combats Alzheimer's disease, one gene at a time (The Record)