

## 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	<b>Associate Professor</b> – Brigham Young University, Dept. of Biology. Identification and functional characterization of disease associated genetic variation
2008 – 2014	<b>Assistant Professor</b> – 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



- 2016 Monsanto Fund – US Site Grants  
Molokai High School Genomic Research  
Role: Principal Investigator  
**Total Funding:** \$20,000 Funding Period: 06/01/2016-12/31/2016
- 2015 National Institutes of Health National Institute on Aging R01 AG042611-03S1  
Research Supplements to Promote Diversity in Health-Related Research  
Role: Principal Investigator  
**Total 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  
**Total 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  
**Total 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  
**Total 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  
**Total 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  
**Total 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  
**Total 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  
**Total 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 Fellowship
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: 104*

*First/Last Author: 37*

Ridge, PG, Wadsworth ME, Miller JB, Saykin AJ, Green RC, **Kauwe JS** (2018). "Assembly of 809 whole mitochondrial genomes with clinical, imaging, and fluid biomarker phenotyping." Alzheimer's & Dementia. doi:10.1016/j.jalz.2017.11.013

Averill LA, Averill CL, Staley LA, Osawa-Kirk JL, **Kauwe JS**, Henri-Barrus P (2017). "The Opioid Abuse Risk Screener predicts aberrant same-day urine drug tests and 1-year controlled substance database checks: A brief report." Health Psychology Open. 4(2).

- Ridge, PG, Karch CM, Hsu S, Arano I, Teerlink CC, Ebbert MT, Farnham JM, et al, Kauwe, JSK (2017). "Linkage, whole genome sequence, and biological data implicate variants in RAB10 in Alzheimer's disease resilience." Genome Medicine. 9:100.
- 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 'Welllderly' 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.

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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.

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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.

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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.
- Cukier, HN, Kunkle BW, Vardarajan BN, Rolati S, Hamilton-Nelson KL, Kohli MA, et al (including Kauwe JSK), Alzheimer's Disease Genetics C (2016). "ABCA7 frameshift deletion associated with Alzheimer disease in African Americans." Neurol Genet **2**(3): e79.
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- Beecham, GW, Hamilton K, Naj AC, Martin ER, Huentelman M, Myers AJ, et al (including Kauwe JSK), Montine TJ (2014). "Genome-wide association meta-analysis of neuropathologic features of Alzheimer's disease and related dementias." PLoS Genet **10**(9): e1004606.
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- Lee, SH, Harold D, Nyholt DR, Consortium AN, International Endogene C, Genetic, et al (including Kauwe JSK), Visscher PM (2013). "Estimation and partitioning of polygenic variation captured by common SNPs for Alzheimer's disease, multiple sclerosis and endometriosis." Hum Mol Genet **22**(4): 832-841.
- Holton, P, Ryten M, Nalls M, Trabzuni D, Weale ME, Hernandez D, et al (including Kauwe JSK), Guerreiro R (2013). "Initial assessment of the pathogenic mechanisms of the recently identified Alzheimer risk Loci." Ann Hum Genet **77**(2): 85-105.
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Schott, JM and Investigators A (2012). "Using CSF biomarkers to replicate genetic associations in Alzheimer's disease." Neurobiol Aging **33**(7): 1486 e1489-1415.

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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.

Hamilton, G, Harris SE, Davies G, Liewald DC, Tenesa A, Payton A, et al (including Kauwe JSK), Deary IJ (2012). "The role of ECE1 variants in cognitive ability in old age and Alzheimer's disease risk." Am J Med Genet B Neuropsychiatr Genet **159B**(6): 696-709.

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.

Cho, Y, Seong JK, Jeong Y, Shin SY and Alzheimer's Disease Neuroimaging I (2012). "Individual subject classification for Alzheimer's disease based on incremental learning using a spatial frequency representation of cortical thickness data." Neuroimage **59**(3): 2217-2230.

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Allen, M, Zou F, Chai HS, Younkin CS, Crook J, Pankratz VS, et al (including Kauwe JSK), Woltjer RL (2012). "Novel late-onset Alzheimer disease loci variants associate with brain gene expression." Neurology **79**(3): 221-228.



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McEvoy, LK, Holland D, Hagler DJ, Jr., Fennema-Notestine C, Brewer JB, Dale AM and Alzheimer's Disease Neuroimaging I (2011). "Mild cognitive impairment: baseline and longitudinal structural MR imaging measures improve predictive prognosis." Radiology **259**(3): 834-843.

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*. 3<sup>rd</sup> 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*. 1<sup>st</sup> 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, Gerontological Society of American meeting. Denver, Colorado 2014. Associations between telomere length and allelic variation in two groups of older adults.

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 Cutthroat Trout Summit. Denver, Colorado. Greenback trout genetics and meristics studies.

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, Annual Meeting Western Division of the American Fishery Society. Jackson, Wyoming 2012. Discovery of single nucleotide polymorphisms (SNPs) in cutthroat trout subspecies using next-generation sequencing technology.

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. Keynote speaker.

Washington University School of Medicine, St. Louis, MO 2011.

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 A $\beta$  levels.

Psychiatry Department Seminar. Washington University School of Medicine, St. Louis, MO 2007. Use of cerebrospinal fluid A $\beta$  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 A $\beta$  levels.

O'Leary Award for Research in Neuroscience Finalists Seminar. Washington University, St. Louis, MO 2007. Use of cerebrospinal fluid A $\beta$  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 A $\beta$  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- $\beta$  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- $\beta$  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**

<b><u>Name</u></b>	<b><u>Major</u></b>
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
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2015 - 2017	College Grant Reviewer
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 \(BYU Forum\)](#)  
[Tau Timing: New Findings on Disease Progression, Clearance \(Alzheimer Research Forum\)](#)  
[HIV-Related Memory Loss Linked to Alzheimer's Protein \(Science Daily\)](#)  
[BYU Researchers find genes that may unlock mystery to Alzheimer's disease \(Deseret News\)](#)  
[Kauwe combats Alzheimer's disease, one gene at a time \(The Record\)](#)