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 25 undergraduates in my lab.

Current Position

Associate Professor	2014-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-Pres. **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 **Committee Member,** LDS Life Sciences Research Symposium

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

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

2010 – Pres. **Consultant**, Genoma LLC
Genetic analysis of complex traits.

2008 – Pres. **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

2016 Monsanto Fund – US Site Grants
Molokai High School Genomic Research
Role: Principle Investigator
Direct Costs: $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: Principle Investigator
Direct Costs: $34,570

2015 National Institutes of Health National Institute on Aging R01 AG042611-03S2
Research Supplements to Promote Diversity in Health-Related Research
Role: Principle Investigator
Direct Costs: $34,570

2014 National Institutes of Health National Institute on Aging R01 AG042437
Genetic Architecture of Memory and Executive Functioning in Alzheimer's disease (P. Crane PI)

Role: Subcontract Principal Investigator
Direct Costs (subcontract): $133,067
Funding Period: 09/01/2014-06/30/2018

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

2012 National Institutes of Health National Institute on Aging R01 AG042611
Pleiotropic and Interaction Effects on Alzheimer's disease Risk and Progression
Role: Principle Investigator
Direct Costs: $1,250,000 Funding Period: 09/01/2012-12/31/2017

2012 Utah DWR Research Grant
Nuclear and Mitochondrial DNA Analysis of Cutthroat Trout
Role: Co-Principle Investigator
Direct Costs: $231,000 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: Principle Investigator
Direct Costs: $150,000 Funding Period: 11/01/12-06/30/17

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
Direct Costs (subcontract): $242,330
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
Direct Costs (subcontract): $113,277
Funding Period: 09/01/2009-08/31/2011

Extramural Awards and Fellowships

2014 McMillian Award for Excellence in Alzheimer's Disease Research
2012 One of fifteen Investigators invited to the Charleston Conference on Alzheimer's
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)

2016	Bobbitt Heart Disease Grant
2016	Bobbitt Inflammation 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
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
Michael J. Fox Foundation
Nathan Shock Center for Excellence in the Basic Biology of Aging
NIH National Institute on Aging Neuroscience Study Section
Parkinson's UK
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: 32*

Kauwe JSK, Shiozawa DK, Evans RP: Phylogeographic and nested clade analysis of the stonefly Pteronarcys californica (Plecoptera : Pteronarcyidae) in the western USA. *J N*

Am Benthol Soc 2004, 23(4):824-838.

Li Y, Nowotny P, Holmans P, Smemo S, Kauwe JS, Hinrichs AL, Tacey K, Doil L, van Luchene R, Garcia V *et al*: Association of late-onset Alzheimer's disease with genetic variation in multiple members of the GAPD gene family. *Proceedings of the National Academy of Sciences of the United States of America* 2004, 101(44):15688-15693.

Dunn G, Hinrichs AL, Bertelsen S, Jin CH, Kauwe JS, Suarez BK, Bierut LJ: Microsatellites versus single-nucleotide polymorphisms in linkage analysis for quantitative and qualitative measures. *BMC genetics* 2005, 6 Suppl 1:S122.

Hinrichs AL, Bertelsen S, Bierut LJ, Dunn G, Jin CH, Kauwe JS, Suarez BK: Multipoint identity-by-descent computations for single-point polymorphism and microsatellite maps. *BMC genetics* 2005, 6 Suppl 1:S34.

Kauwe JS, Bertelsen S, Bierut LJ, Dunn G, Hinrichs AL, Jin CH, Suarez BK: The efficacy of short tandem repeat polymorphisms versus single-nucleotide polymorphisms for resolving population structure. *BMC genetics* 2005, 6 Suppl 1:S84.

Nowotny P, Hinrichs AL, Smemo S, Kauwe JS, Maxwell T, Holmans P, Hamshere M, Turic D, Jehu L, Hollingworth P *et al*: Association studies between risk for late-onset Alzheimer's disease and variants in insulin degrading enzyme. *American journal of medical genetics Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 2005, 136B(1):62-68.

Suarez BK, Taylor C, Bertelsen S, Bierut LJ, Dunn G, Jin CH, Kauwe JS, Paterson AD, Hinrichs AL: An analysis of identical single-nucleotide polymorphisms genotyped by two different platforms. *BMC genetics* 2005, 6 Suppl 1:S152.

Grupe A, Li Y, Rowland C, Nowotny P, Hinrichs AL, Smemo S, Kauwe JS, Maxwell TJ, Cherny S, Doil L *et al*: A scan of chromosome 10 identifies a novel locus showing strong association with late-onset Alzheimer disease. *American journal of human genetics* 2006, 78(1):78-88.

Li Y, Grupe A, Rowland C, Nowotny P, Kauwe JS, Smemo S, Hinrichs A, Tacey K, Toombs TA, Kwok S *et al*: DAPK1 variants are associated with Alzheimer's disease and allele-specific expression. *Human molecular genetics* 2006, 15(17):2560-2568.

Mukherjee O, Pastor P, Cairns NJ, Chakraverty S, Kauwe JS, Shears S, Behrens MI, Budde J, Hinrichs AL, Norton J *et al*: HDDD2 is a familial frontotemporal lobar degeneration with ubiquitin-positive, tau-negative inclusions caused by a missense mutation in the signal peptide of progranulin. *Annals of neurology* 2006, 60(3):314-322.

Smemo S, Nowotny P, Hinrichs AL, Kauwe JS, Cherny S, Erickson K, Myers AJ, Kaleem M, Marlowe L, Gibson AM *et al*: Ubiquilin 1 polymorphisms are not associated with late-onset Alzheimer's disease. *Annals of neurology* 2006, 59(1):21-26.

Hu Y, Hosseini A, Kauwe JS, Gross J, Cairns NJ, Goate AM, Fagan AM, Townsend RR, Holtzman DM: Identification and validation of novel CSF biomarkers for early stages of Alzheimer's disease. *Proteomics Clinical applications* 2007, 1(11):1373-1384.

Kauwe JS, Jacquart S, Chakraverty S, Wang J, Mayo K, Fagan AM, Holtzman DM, Morris JC, Goate AM: Extreme cerebrospinal fluid amyloid beta levels identify family with late-onset Alzheimer's disease presenilin 1 mutation. *Annals of neurology* 2007, 61(5):446-453.

Mukherjee O, Kauwe JS, Mayo K, Morris JC, Goate AM: Haplotype-based association analysis of the MAPT locus in late onset Alzheimer's disease. *BMC genetics* 2007, 8:3.

Nowotny P, Bertelsen S, Hinrichs AL, Kauwe JS, Mayo K, Jacquart S, Morris JC, Goate A: Association studies between common variants in prolyl isomerase Pin1 and the risk for late-onset Alzheimer's disease. *Neuroscience letters* 2007, 419(1):15-17.

Nowotny P, Simcock X, Bertelsen S, Hinrichs AL, Kauwe JS, Mayo K, Smemo S, Morris JC, Goate A: Association studies testing for risk for late-onset Alzheimer's disease with common variants in the beta-amyloid precursor protein (APP). *American journal of medical genetics Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 2007, 144B(4):469-474.

Wahrle SE, Shah AR, Fagan AM, Smemo S, Kauwe JS, Grupe A, Hinrichs A, Mayo K, Jiang H, Thal LJ *et al*: Apolipoprotein E levels in cerebrospinal fluid and the effects of ABCA1 polymorphisms. *Molecular neurodegeneration* 2007, 2:7.

Kauwe JS, Cruchaga C, Mayo K, Fenoglio C, Bertelsen S, Nowotny P, Galimberti D, Scarpini E, Morris JC, Fagan AM *et al*: Variation in MAPT is associated with cerebrospinal fluid tau levels in the presence of amyloid-beta deposition. *Proceedings of the National Academy of Sciences of the United States of America* 2008, 105(23):8050-8054.

Kauwe JS, Wang J, Chakraverty S, Goate AM, Henao-Martinez AF: Novel presenilin 1 variant (P117A) causing Alzheimer's disease in the fourth decade of life. *Neuroscience letters* 2008, 438(2):257-259.

Mukherjee O, Wang J, Gitcho M, Chakraverty S, Taylor-Reinwald L, Shears S, Kauwe JS, Norton J, Levitch D, Bigio EH *et al*: Molecular characterization of novel progranulin (GRN) mutations in frontotemporal dementia. *Human mutation* 2008, 29(4):512-521.

Clifford DB, Fagan AM, Holtzman DM, Morris JC, Teshome M, Shah AR, Kauwe JS: CSF biomarkers of Alzheimer disease in HIV-associated neurologic disease. *Neurology* 2009, 73(23):1982-1987.

Fenoglio C, Galimberti D, Cortini F, Kauwe JS, Cruchaga C, Venturelli E, Villa C, Serpente M, Scalabrini D, Mayo K *et al*: Rs5848 variant influences GRN mRNA levels in brain and peripheral mononuclear cells in patients with Alzheimer's disease. *Journal of Alzheimer's disease : JAD* 2009, 18(3):603-612.

Harold D, Abraham R, Hollingworth P, Sims R, Gerrish A, Hamshere ML, Pahwa JS, Moskvina V, Dowzell K, Williams A *et al*: Genome-wide association study identifies variants at CLU and PICALM associated with Alzheimer's disease. *Nature genetics* 2009, 41(10):1088-1093.

Kauwe JS, Wang J, Mayo K, Morris JC, Fagan AM, Holtzman DM, Goate AM: Alzheimer's disease risk variants show association with cerebrospinal fluid amyloid beta.

Neurogenetics 2009, 10(1):13-17.

Cruchaga C, Kauwe JS, Mayo K, Spiegel N, Bertelsen S, Nowotny P, Shah AR, Abraham R, Hollingworth P, Harold D *et al*: SNPs associated with cerebrospinal fluid phospho-tau levels influence rate of decline in Alzheimer's disease. *PLoS genetics* 2010, 6(9):e1001101.

Jones L, Holmans PA, Hamshere ML, Harold D, Moskvina V, Ivanov D, Pocklington A, Abraham R, Hollingworth P, Sims R *et al*: Genetic evidence implicates the immune system and cholesterol metabolism in the aetiology of Alzheimer's disease. *PloS one* 2010, 5(11):e13950.

Kauwe JS, Bertelsen S, Mayo K, Cruchaga C, Abraham R, Hollingworth P, Harold D, Owen MJ, Williams J, Lovestone S *et al*: Suggestive synergy between genetic variants in TF and HFE as risk factors for Alzheimer's disease. *American journal of medical genetics Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 2010, 153B(4):955-959.

Kauwe JS, Cruchaga C, Bertelsen S, Mayo K, Latu W, Nowotny P, Hinrichs AL, Fagan AM, Holtzman DM, Alzheimer's Disease Neuroimaging I *et al*: Validating predicted biological effects of Alzheimer's disease associated SNPs using CSF biomarker levels. *Journal of Alzheimer's disease : JAD* 2010, 21(3):833-842.

Cruchaga C, Nowotny P, Kauwe JS, Ridge PG, Mayo K, Bertelsen S, Hinrichs A, Fagan AM, Holtzman DM, Morris JC *et al*: Association and expression analyses with single-nucleotide polymorphisms in TOMM40 in Alzheimer disease. *Archives of neurology* 2011, 68(8):1013-1019.

Hollingworth P, Harold D, Sims R, Gerrish A, Lambert JC, Carrasquillo MM, Abraham R, Hamshere ML, Pahwa JS, Moskvina V *et al*: Common variants at ABCA7, MS4A6A/MS4A4E, EPHA1, CD33 and CD2AP are associated with Alzheimer's disease. *Nature genetics* 2011, 43(5):429-435.

Kauwe JS, Cruchaga C, Karch CM, Sadler B, Lee M, Mayo K, Latu W, Su'a M, Fagan AM, Holtzman DM *et al*: Fine mapping of genetic variants in BIN1, CLU, CR1 and PICALM for association with cerebrospinal fluid biomarkers for Alzheimer's disease. *PloS one* 2011, 6(2):e15918.

Naj AC, Jun G, Beecham GW, Wang LS, Vardarajan BN, Buros J, Gallins PJ, Buxbaum JD, Jarvik GP, Crane PK *et al*: Common variants at MS4A4/MS4A6E, CD2AP, CD33 and EPHA1 are associated with late-onset Alzheimer's disease. *Nature genetics* 2011, 43(5):436-441.

Overton ET, Kauwe JS, Paul R, Tashima K, Tate DF, Patel P, Carpenter CC, Patty D, Brooks JT, Clifford DB: Performances on the CogState and standard neuropsychological batteries among HIV patients without dementia. *AIDS and behavior* 2011, 15(8):1902-1909.

Cruchaga C, Kauwe JS, Nowotny P, Bales K, Pickering EH, Mayo K, Bertelsen S, Hinrichs A, Alzheimer's Disease Neuroimaging I, Fagan AM *et al*: Cerebrospinal fluid APOE levels: an endophenotype for genetic studies for Alzheimer's disease. *Human molecular*

genetics 2012, 21(20):4558-4571.

Gerrish A, Russo G, Richards A, Moskvina V, Ivanov D, Harold D, Sims R, Abraham R, Hollingworth P, Chapman J *et al*: The role of variation at APP, PSEN1, PSEN2, and MAPT in late onset Alzheimer's disease. *Journal of Alzheimer's disease : JAD* 2012, 28(2):377-387.

Hamilton G, Harris SE, Davies G, Liewald DC, Tenesa A, Payton A, Horan MA, Ollier WE, Pendleton N, Genetic *et al*: The role of ECE1 variants in cognitive ability in old age and Alzheimer's disease risk. *American journal of medical genetics Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 2012, 159B(6):696-709.

Hamilton G, Killick R, Genetic, Environmental Risk for Alzheimer's Disease C, Translational Genomics Research Institute C, Lambert JC, Amouyel P, European Alzheimer Disease I, Carrasquillo MM, Pankratz VS *et al*: Functional and genetic analysis of haplotypic sequence variation at the nicastrin genomic locus. *Neurobiol Aging* 2012, 33(8):1848 e1841-1813.

Hollingworth P, Sweet R, Sims R, Harold D, Russo G, Abraham R, Stretton A, Jones N, Gerrish A, Chapman J *et al*: Genome-wide association study of Alzheimer's disease with psychotic symptoms. *Molecular psychiatry* 2012, 17(12):1316-1327.

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

Hudson G, Sims R, Harold D, Chapman J, Hollingworth P, Gerrish A, Russo G, Hamshere M, Moskvina V, Jones N *et al*: No consistent evidence for association between mtDNA variants and Alzheimer disease. *Neurology* 2012, 78(14):1038-1042.

Jun G, Vardarajan BN, Buros J, Yu CE, Hawk MV, Dombroski BA, Crane PK, Larson EB, Alzheimer's Disease Genetics C, Mayeux R *et al*: Comprehensive search for Alzheimer disease susceptibility loci in the APOE region. *Archives of neurology* 2012, 69(10):1270-1279.

Ridge PG, Maxwell TJ, Corcoran CD, Norton MC, Tschanz JT, O'Brien E, Kerber RA, Cawthon RM, Munger RG, Kauwe JS: Mitochondrial genomic analysis of late onset Alzheimer's disease reveals protective haplogroups H6A1A/H6A1B: the Cache County Study on Memory in Aging. *PloS one* 2012, 7(9):e45134.

Shi H, Belbin O, Medway C, Brown K, Kalsheker N, Carrasquillo M, Proitsi P, Powell J, Lovestone S, Goate A *et al*: Genetic variants influencing human aging from late-onset Alzheimer's disease (LOAD) genome-wide association studies (GWAS). *Neurobiol Aging* 2012, 33(8):1849 e1845-1818.

Zou F, Chai HS, Younkin CS, Allen M, Crook J, Pankratz VS, Carrasquillo MM, Rowley CN, Nair AA, Middha S *et al*: Brain expression genome-wide association study (eGWAS) identifies human disease-associated variants. *PLoS genetics* 2012, 8(6):e1002707.

Chapman J, Rees E, Harold D, Ivanov D, Gerrish A, Sims R, Hollingworth P, Stretton A, Consortium G, Holmans P *et al*: A genome-wide study shows a limited contribution of

rare copy number variants to Alzheimer's disease risk. *Human molecular genetics* 2013, 22(4):816-824.

Cruchaga C, Kauwe JS, Harari O, Jin SC, Cai Y, Karch CM, Benitez BA, Jeng AT, Skorupa T, Carrell D *et al*: GWAS of cerebrospinal fluid tau levels identifies risk variants for Alzheimer's disease. *Neuron* 2013, 78(2):256-268.

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

Guerreiro R, Wojtas A, Bras J, Carrasquillo M, Rogaeva E, Majounie E, Cruchaga C, Sassi C, Kauwe JS, Younkin S *et al*: TREM2 variants in Alzheimer's disease. *The New England journal of medicine* 2013, 368(2):117-127.

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

Lambert JC, Ibrahim-Verbaas CA, Harold D, Naj AC, Sims R, Bellenguez C, DeStafano AL, Bis JC, Beecham GW, Grenier-Boley B *et al*: Meta-analysis of 74,046 individuals identifies 11 new susceptibility loci for Alzheimer's disease. *Nature genetics* 2013, 45(12):1452-1458.

Lee SH, Harold D, Nyholt DR, Consortium AN, International Endogene C, Genetic, Environmental Risk for Alzheimer's disease C, Goddard ME, Zondervan KT, Williams J *et al*: Estimation and partitioning of polygenic variation captured by common SNPs for Alzheimer's disease, multiple sclerosis and endometriosis. *Human molecular genetics* 2013, 22(4):832-841.

Ridge PG, Ebbert MT, Kauwe JS: Genetics of Alzheimer's disease. *BioMed research international* 2013, 2013:254954.

Ridge PG, Koop A, Maxwell TJ, Bailey MH, Swerdlow RH, Kauwe JS, Honea RA, Alzheimer's Disease Neuroimaging I: Mitochondrial haplotypes associated with biomarkers for Alzheimer's disease. *PloS one* 2013, 8(9):e74158.

Ridge PG, Mukherjee S, Crane PK, Kauwe JSK, Alzheimer’s Disease Genetics C: Alzheimer’s Disease: Analyzing the Missing Heritability. *PloS one* 2013, 8(11):e79771.

Allen M, Kachadoorian M, Quicksall Z, Zou F, Chai HS, Younkin C, Crook JE, Pankratz VS, Carrasquillo MM, Krishnan S *et al*: Association of MAPT haplotypes with Alzheimer's disease risk and MAPT brain gene expression levels. *Alzheimer's research & therapy* 2014, 6(4):39.

Benitez BA, Jin SC, Guerreiro R, Graham R, Lord J, Harold D, Sims R, Lambert JC, Gibbs JR, Bras J *et al*: Missense variant in TREML2 protects against Alzheimer's disease. *Neurobiol Aging* 2014, 35(6):1510 e1519-1526.

Cao Y, Wei P, Bailey M, Kauwe JS, Maxwell TJ, Alzheimer's Disease Neuroimaging I: A versatile omnibus test for detecting mean and variance heterogeneity. *Genetic*

epidemiology 2014, 38(1):51-59.

Cruchaga C, Ebbert MT, Kauwe JS: Genetic discoveries in AD using CSF amyloid and tau. *Current genetic medicine reports* 2014, 2(1):23-29.

Cruchaga C, Karch CM, Jin SC, Benitez BA, Cai Y, Guerreiro R, Harari O, Norton J, Budde J, Bertelsen S *et al*: Rare coding variants in the phospholipase D3 gene confer risk for Alzheimer's disease. *Nature* 2014, 505(7484):550-554.

Dayton P, Feilmeier M, Hirschi J, Kauwe M, Kauwe JS: Observed changes in radiographic measurements of the first ray after frontal plane rotation of the first metatarsal in a cadaveric foot model. *The Journal of foot and ankle surgery : official publication of the American College of Foot and Ankle Surgeons* 2014, 53(3):274-278.

Dayton P, Kauwe M, Kauwe JS, Feilmeier M, Hirschi J: Observed changes in first metatarsal and medial cuneiform positions after first metatarsophalangeal joint arthrodesis. *The Journal of foot and ankle surgery : official publication of the American College of Foot and Ankle Surgeons* 2014, 53(1):32-35.

Ebbert MT, Ridge PG, Wilson AR, Sharp AR, Bailey M, Norton MC, Tschanz JT, Munger RG, Corcoran CD, Kauwe JS: Population-based analysis of Alzheimer's disease risk alleles implicates genetic interactions. *Biological psychiatry* 2014, 75(9):732-737.

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

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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**

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.

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.

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.

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 Meetings. Pittsburgh, PA 2002. Using DNA Markers to Investigate Inter–basin Relationships and Dispersal of Stoneflies.

Oral Presentations

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 January 2016)

Graduate Students (Advisor):

Perry Ridge	PhD	Awarded in 2013
Mark Ebbert	PhD	Awarded in 2014
Ivan Arano	MS	Awarded in 2015
Ciarah Cook	PhD	2015-Present
Lyndsay Staley	MS	2016-Present
Josue Gonzalez	PhD	2016-Present

Graduate Students (Committee Member):

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

Undergraduate Students:

***BYU Undergraduate Research Award Recipient (39)**
[!]First Author on a Manuscript (5)
[#]Co-author on a Manuscript (22)

[#]Ben Ainscough
***Alan Alohikea**
John Allen
Alex Allred
Michael Arntsen
***[#]Matthew Bailey**
[#]Kaitlyn Bell
Hilary Benedick
Aaron Biehl
***[#]Kevin Boehme**
Josh Browning
***[#]Devan Bursey**
***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
Jake Fitisemanu
Kenisi Fonoimoana
***[#]Spencer Foutz**
Harrison Garrett
***[!#]Josue 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
Katherine McFarlane
Tasha McGhie
[#]David McKean
***Miles McKee**
Lauren McKinnon
Ailana Meyer
Ryan Miller
Jeff Mortensen
***Tyler Mower**
***[!#]Caitlin Munger**
Orlando Negron
Heankel Oliveros
Maveni Palu
Joshua Parker
***Sheradyn Parker**
***[#]David Patty**
Lauren Pennington
[#]Ammon Perkes
[#]Rachel Perry
***[!]David Peterson**
***[#]Michael Peterson**
Patton Pettijohn
Lucas Pinto
Keni Reid
***Frederick Rohlfing**
Ryan Rupper
Jordan Salmon
Iuliia Sambur
***[!#]Cameron Schmutz**
Hunter Schone
***Victoria Scott**
***Emily Sears**
[!]Aaron Sharp
Aaron Simmons
Scott Smith
***Brandon Soelberg**
ChadSorenson
***Brooke Spencer**
Sarah Spendlove
***[#]Lyndsay Staley**
MacKenzie Stewart
***[#]Ryan Stinger**
Casey Stinnett
Chase Stolworthy
Billy Strong
[#]Manti Su'a
Trent Tipton
***Eleni Tukuafu**
***Taylor Turnbull**
[#]*Mark Wadsworth
Tyler Weenig
Michelle Wilkins
***Sage Wright**

Extramural Citizenship Activities (Academic)

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)

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
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

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	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
2002–2003	BYUGSA Grant Review Board

Languages

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

Media

Alzheimer Research – Matt Townsend Show (BYU Radio)
TREM2 and Other Alzheimer's disease progress (BYU Radio MP3)
Evening News Interview with Dr. Kauwe (KUTV 2News)
BYU Researchers discover New Alzheimer's risk Gene (KSL News)
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)