

*Curriculum Vitae*

**JOHN “KEONI” S.K. KAUWE, PHD**

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*Brigham Young University–Hawaii, #1971*  
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**PROFESSIONAL EXPERIENCE**

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2020 to present      BRIGHAM YOUNG UNIVERSITY–HAWAII, LAIE, HAWAII  
  
*President*

2016 to 2020      BRIGHAM YOUNG UNIVERSITY, PROVO, UT  
  
*Dean of Graduate Studies (2019 – 2020)*  
  
*Chair, Department of Biology (2018 – 2019)*  
  
*Associate Chair, Department of Biology (2016 – 2018)*

**EDUCATION**

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WASHINGTON UNIVERSITY, ST. LOUIS, MO

2008      *Post-Doctoral Fellowship, Alzheimer’s disease biomarkers and genetics*

2007      *Ph.D. in Evolution, Ecology and Population Biology*

BRIGHAM YOUNG UNIVERSITY, PROVO, UT

2003      *M.S. in Population Genetics*

1999      *B.S. in Molecular Biology*

**ACADEMIC POSITIONS AND AFFILIATIONS**

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2019 – present      *Visiting Professor, Department of Psychiatry, Washington University*

- 2018 – *present*     **Professor**, Department of Biology, Brigham Young University
- 2014 – 2018     **Associate Professor**, Department of Biology, Brigham Young University
- 2008 – 2014     **Assistant Professor**, Department of Biology, Brigham Young University
- 2007 – 2008     **Postdoctoral Research Scholar**, Washington University School of Medicine
- 2004 – 2007     **Ph.D. Student**, Lab of Dr. Alison Goate, Washington University
- 2004     **Graduate Research Assistant**, Lab of Dr. Brian Suarez, Washington University
- 2004     **Graduate Research Assistant**, Lab of Dr. Alan Templeton, Washington University
- 2003     **Graduate Research Assistant**, Lab of Dr. Alison Goate, Washington University
- 2001 – 2003     **M.S. Thesis**, Lab of Dr. Dennis Shiozawa, Brigham Young University
- 1996 – 1999     **Undergraduate Research Assistant**, Brigham Young University

## TEACHING EXPERIENCE

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- 2009 – *Present*     **Instructor**, Brigham Young University
- Designed and presented course materials for general biology for majors; introduction to Bioinformatics; genetics of human disease; and 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
- 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



- 2017 **National Institutes of Health National Institute on Aging**  
 Integrative Network Modeling of Cognitive Resilience to AD  
 Role: Subcontract PI  
 Funding Period: 09/01/2017-08/03/2022 Total Funding: \$185,680
- 2016 **National Institute of Health National Institute on Aging 1 RF1 AG054052-01**  
 Epidemiology of Alzheimer's disease resilience and risk pedigrees  
 Role: Principal Investigator  
 Funding Period: 09/01/2016-06/30/2021 Total Funding: \$3,528,416
- 2016 **National Institutes of Health National Institute on Aging R01 AG054060**  
 Pleiotropy GWAS of Alzheimer's disease (A. Naj PI)  
 Role: Co-Investigator  
 Funding Period: 09/01/2016 - 4/30/2020 Total Funding: \$104,958
- 2016 **National Science Foundation**  
 MRI: Acquisition of a PacBio Sequel System (S.M. Bybee PI)  
 Role: Co-investigator  
 Funding Period: 09/01/2016-08/30/2019 Total Funding: \$307,723
- 2016 **Monsanto Fund – US Site Grants**  
 Molokai High School Genomic Research  
 Role: Principal Investigator  
 Funding Period: 06/01/2016-12/31/2016 Total Funding: \$20,000
- 2015 **National Institutes of Health National Institute on Aging R01 AG042611-03S1**  
 Research Supplements to Promote Diversity in Health-Related Research  
 Role: Principal Investigator  
 Funding Period: 09/01/2015-12/31/2017 Total Funding: \$69,140
- 2015 **National Institutes of Health National Institute on Aging R01 AG042611-03S2**  
 Research Supplements to Promote Diversity in Health-Related Research  
 Role: Principal Investigator  
 Funding Period: 09/01/2015-12/31/2017 Total Funding: \$69,140
- 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  
 Funding Period: 03/01/2013-02/28/2014 Total Funding: \$50,000
- 2012 **Utah DWR Research Grant**  
 Nuclear and Mitochondrial DNA Analysis of Cutthroat Trout  
 Role: Co-Principal Investigator  
 Funding Period: 09/01/2012-12/31/2017 Total Funding: \$231,000
- 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  
 Funding Period: 09/01/2012-12/31/2017 Total Funding: \$1,318,126
- 2011 **Alzheimer's Association Mentored New Investigator Research Grant**

- Genetic and Environmental Influences on Rate of Progression of Alzheimer's disease  
 Role: Principal Investigator  
 Funding Period: 08/01/11-07/31/14 Total Funding: \$149,831
- 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  
 Funding Period: 09/01/2010-08/31/2015 Total Funding: \$97,422
- 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  
 Funding Period: 09/01/2009-08/31/2011 Total Funding: \$154,319

### **EXTRAMURAL AWARDS AND DISTINCTIONS**

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- 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)**

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- 2019 CEMENT Mentoring Supplement Award  
 2018 CEMENT Mentoring Supplement Award  
 2018 Bobbit Research Award  
 2017 CEMENT Mentoring Supplement Award  
 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 DISTINCTIONS**

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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 ACTIVITIES**

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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

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Ad Hoc Reviewer:

- . Alzheimer's Association
- . Alzheimer's Society UK
- . Austrian Science Fund
- . BrightFocus Foundation
- . Department of Veteran's Affairs
- . Dutch Research Council (NWO)
- . 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
- . Ser Cymru II
- . Swiss National Science Foundation
- . University of Utah Center on Aging
- . National Oceanic and Atmospheric Administration

## CONSORTIUM MEMBERSHIPS

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

## PEER-REVIEWED JOURNAL ARTICLES (ASTERICK INDICATES LEAD/SENIOR AUTHOR)

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*Total publications: 126*

*\*Lead/Senior Author: 46*

Miller JB, **Kauwe JSK** (2020). "Predicting Clinical Dementia Rating Using Blood RNA Levels." *Genes (Basel)*. 2020;11(6):E706. Published 2020 Jun 26. doi:10.3390/genes11060706

Sherva R, Gross A, Mukherjee S, Koesterer R, Amouyel P, Bellengues C, Dufouil C, Bennett DA, et al. (including **Kauwe JSK**), Green RC (2020). Genome-wide association study of rate of cognitive decline in Alzheimer's disease patients identifies novel genes and pathways [published online ahead of print, 2020 Jun 23]. *Alzheimers Dement*. 2020;10.1002/alz.12106. doi:10.1002/alz.12106

Miller JB, Ward E, Staley LA, Stevens J, Teerlink CC, Tavana JP, Cloward M, Page M, Dayton L, Alzheimer's Disease Genetics Consortium, Cannon-Albright LA, **Kauwe JSK** (2020). "Identification and genomic analysis of pedigrees with exceptional longevity identifies candidate rare variants" [published online ahead of print, 2020 Jun 21]. *Neurobiol Dis.* 2020;143:104972. doi:10.1016/j.nbd.2020.104972

\*Murcia JDG, Weinert A, Freitas CMT, Arens DK, Ferrel MN, Grose JH, Ridge PG, Wilson E, **Kauwe JSK**, Weber S (2020). "Atypical chemokine receptor ACKR2-V41A has decreased CCL2 binding, scavenging, and activation, supporting sustained inflammation and increased Alzheimer's disease risk." *Sci Rep.* 10(1):8019.

Saito E, Miller J, Kauwe JS, Bikman BT (2020). "Metabolic RNA-seq profiles from sporadic Alzheimer's disease patients: Analysis of glycolytic and ketolytic pathways." *The FASEB Journal*, 34: 1-1.

Miller JB, McKinnon LM, Whiting MF, **Kauwe JSK**, Ridge PG (2020). "Codon Pairs are Phylogenetically Conserved: A comprehensive analysis of codon pairing conservation across the Tree of Life." *PLoS One.* 15(5):e0232260.

Strickland SL, Reddy JS, Allen M, N'songo A, Burgess JD, Corda MM, Ballard T, Wang X, Carrasquillo MM, et al. (including **Kauwe JSK**), Ertekin-Taner N (2020). "MAPT haplotype-stratified GWAS reveals differential association for AD risk variants." *Alzheimers Dement.* 10.1002/alz.12099.

\*Vance E, Gonzalez Murcia JD, Miller JB, Alzheimer's Disease Genetics Consortium (ADGC), Staley L, Crane PK, Mukherjee S, **Kauwe JSK** (2020). "Failure to detect synergy between variants in transferrin and hemochromatosis and Alzheimer's disease in large cohort." *Neurobiol Aging.* 89:142.e9-142.e12.

Sanders CL, Rattinger GB, Pharm.D., DeBerard MS, Hammond, AG, Wengreen,H, **Kauwe JS**, Buhusi M, Tschanz JT. (2019.) "Interaction between Physical Activity and Genes Related to Neurotrophin Signaling in Late-Life Cognitive Performance: The Cache County Study." *J Gerontol A Biol Sci Med Sci.* doi: 10.1093/gerona/glz200. [Epub ahead of print]

Ebbert M, Jensen TD, Jansen-West K, Sens JP, Reddy JS, Ridge PG, **Kauwe JS**, Belzil V, Prgent L, Carrasquillo MM, et al. (2019). "Systematic analysis of dark and camouflaged genes reveals disease-relevant genes hiding in plain sight." *Genome biology.* 20(1):97.

\*Wright SM, Jensen SL, Cockriel KL, Davis B, Tschanz JT, Munger RG, Corcoran CD, **Kauwe JS** (2019). "Association study of rs3846662 with Alzheimer's disease in a population-based cohort: the Cache County Study." *Neurobiology of aging.* S0197-4580(19)30082-X.

\*Cannon-Albright LA, Foster NL, Schliep K, Farnham JM, Teerlink CC, Kaddas H, Tschanz J, Corcoran C, **Kauwe JS** (2019). "Relative risk for Alzheimer disease based on complete family history." *Neurology.* 92:e1-e9.

Patel D, Mez J, Vardarajan BN, Staley L, Chung J, Zhang X, Farrell JJ, Rynkiewicz MJ, Cannon-Albright LA, Teerlink CC, et al. (including **Kauwe JSK**), Farrer LA (2019). "Association of Rare Coding Mutations with Alzheimer Disease and Other Dementias Among Adults of European Ancestry." *JAMA network open.* 2(3):e191350.



Kunkle BW, Grenier-Boley B, Sims R, Bis JC, Damotte V, Naj AC, Boland A, Vronskaya M, van der Lee SJ, Amlie-Wolf A, et al. (including **Kauwe JSK**), Pericak-Vance MA. (2019). "Genetic meta-analysis of diagnosed Alzheimer's disease identified new risk loci and implicates A $\beta$ , tau, immunity and lipid processing." *Nature Genetics*. 51(3):414-430.

Tavana JP, Jensen NO, Rosene M, Ridge PG, **Kauwe JS**, Karch CM. (2018). "RAB10: an Alzheimer's disease resilience locus and potential drug target." *Clinical Interventions in Aging*. 2019(14):73-79.

\*Sexton CE, Ebbert M, Miller RH, Meganne Ferrel JT, Corcoran CD, Ridge PG, **Kauwe JS**. (2018). "Common DNA Variants Accurately Rank an Individual of Extreme Height." *International Journal of Genomics*. doi.org/10.1155/2018/5121540

\*Maxwell TJ, Corcoran C, Del-Aguila JL, Budde JP, Deming Y, Cruchaga C, Goate AM, **Kauwe JS**. (2018). "Genome-wide association study for variants that modulate relationships between cerebrospinal fluid amyloid-beta 42, tau, and p-tau levels." *Alzheimer's research and therapy*. 10(1):86.

Cannon-Albright LA, Dintelman S, Maness T, Cerny J, Thomas A, Backus S, Farnham JM, Teerlink CC, Contreras J, **Kauwe JS**, Meyer LJ. (2018). "Population genealogy resource shows evidence of familial clustering for Alzheimer disease." *Neurology: Genetics*. 4(4):e249.

Anttila V, Bulik-Sullivan B, Finucane HK, Walters RK, Bras J, Duncan L, Escott-Price V, Falcone GJ, Gormley P, Malik R, et al. (including **Kauwe JSK**), Murray R. (2018). "Analysis of shared heritability in common disorders of the brain." *Science*. 360(6395).

\*Ridge PG, **Kauwe JS**. (2018). "Mitochondria and Alzheimer's disease: the role of mitochondrial genetic variation." *Current Genetic Medicine Reports*. 6:1-10.

Sassi C, Nalls MA, Ridge PG, Gibbs R, Lupton MK, Troakes C, Lunnon K, Al-Sarraj S, Brown KS, Medway C, et al. (including **Kauwe JSK**), Hardy J. (2018). "Mendelian adult-onset leukodystrophy genes in Alzheimer's disease: critical influence of CSF1R and NOTCH3." *Neurobiol Aging*. 66:179.e17-179.e29.

\*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 **Kauwe JSK**), G. D. Schellenberg (2017). "Rare coding variants in PLCG2, ABI3, and TREM2 implicate microglial-mediated innate immunity in Alzheimer's disease." *Nat Genet*. 49(9); 1371-1384.

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.* 13(10):1133-1142.

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.* 72(12):1607-1613.

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.* 13(7):727-738.

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.* 20(8):1052-1061.

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, ADNI (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, Tritschuh 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*. 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.

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.

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## COLLABORATING PUBLICATIONS

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## **BOOK CHAPTERS**

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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 (60)**

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- University of Hawaii, Hilo, 2020
- Understanding the Contributions of Inheritance to Alzheimer's disease Risk, Alzheimer's disease and Related Dementias Coordinating Council, Utah Department of Health, 2020.
- Using Population-scale Genealogical Data for Alzheimer's disease Gene Discovery, BioDesign Institute, Arizona State University, 2019.
- Leveraging Complex Pedigrees for Rare Variant Discovery in Alzheimer's disease, Van Andel Institute, 2019.
- Alzheimer's disease: Bench to Bedside Talk, Na Pu'uwai Senior Enrichment Center, Molokai, HI, 2018.
- Keynote Speaker. Summer Undergraduate Research Symposium. Pennsylvania State University, College of Medicine. Harrisburg, Pennsylvania 2018. Family-based approaches to understanding the genetic basis of Alzheimer's disease.
- Elder Law Section, Utah State Bar Association. Salt Lake City, Utah 2016, 2018. Alzheimer's & Dementia: An Update for Attorneys.

- Shiley-Marcos ADRC Neurodegeneration Seminar Series. University of California, San Diego 2017. A Unique Family-Based Approach to Identifying Factors for Alzheimer's disease Risk and Resilience.
- 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 KeyNote 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 (9)**

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- 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 June 2019)**

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Graduate Students (Advisor):

Perry Ridge	PhD	2013
Mark Ebbert	PhD	2014
Ivan Arano	MS	2015
Lyndsay Staley	MS	2016 – 2018
John Allen	MS	2017 – 2018
Ciarah Cook	PhD	2015 – 2020
Josue Gonzalez	PhD	2016 – 2020
Justina Tavana	PhD	2018 – Present

Graduate Students (Committee Member):

Nina Laitinen	MS	2011
Whitney Hoopes	MS	2016
Sun Yeong Oh	MS	2012 – 2015
Katrina Hurst	PhD	2013 – 2017
Spencer Ingley	PhD	2015
Justin Page	PhD	2015
Brandon Pickett	PhD	2015– Present
Alex Freeman	MS	2016 – 2018
Justin Miller	PhD	2018
Dustin Miller	PhD	2017– Present

## SUMMARY OF UNDERGRADUATE STUDENT MENTORING: (Students Total: 149)

#Ben Ainscough	Channing Hancock	#Ammon Perkes
Alan Alohikea	Adam Hansen	#Rachel Perry
#John Allen	Jeremy Harris	## <sup>1</sup> David Peterson
Alex Allred	Alex Hatch	Joseph Peterson
Brandon Anderson	*Grace Hawkins	*#Michael Peterson
Michael Arntsen	Nicholas Heimann	Patton Pettijohn
Derek Arrington	## <sup>1</sup> Ariel Hippen	#Brandon Pickett
MacKenzie Arrington	Kameron Ho Ching	Lucas Pinto
Quentinia Aspinall	*Matthew Hodgman	*Calvin Quigley
*Taylor Avei	Parker Hollingsworth	*Keni Reid
#Matthew Bailey	#Kaitlyn Bell Hoyt	Ed Ringger
Benjamin Bearss	Erik Huckvale	*#Frederick Rohlfling
Hilary Benedick	Jeremy Hunt	Ryan Rupper
Aaron Biehl	Todd Jaramillo	Jordan Salmon
**Gage Black	*#Samantha Jensen	Iuliia Sambur
*#Kevin Boehme	Matthew Johnson	Emma Santiago
Josh Browning	Sarah Karlinsey	Alina Schmidt
#Daniel Bunker	Curtis Killpack	*#Cameron Schmutz
*#Devan Bursey	Nathan Killpack	Hunter Schone
*Joshua Cassinat	Jackson King	*Victoria Scott
Moroni Chalita	*Krista Klinger	*Emily Sears
Matthew Cloward	In Kwon	Robert Seymour
*#Jesse Cobell	Annaleah Larson	<sup>1</sup> #Aaron Sharp
Cassidy Cook	Lelann Latu	Aaron Simmons
Ciarah Cook	#Wayne Latu	Scott Smith
*Tanner Cox	***Mo Lee	*Brandon Soelberg
Katherine Crawford	Keoki Leong	Benjamin Song
*#Kristen Cockriel Crofts	Lia Ludlam	Chad Sorenson
Francisco Darquea	* <sup>1</sup> #Caitlin Munger Lythgoe	Brooke Spencer
*#Brian Davis	Monica Mackay	Sarah Spendlove
*Louisa Dayton	Devan McBee	!***Lyndsay Staley
Adam DeMello	Katherine McFarlane	Ryan Stinger
Shane Dooley	Tasha McGhie	Casey Stinnett
Ashlee Ebbert	David McKean	Chase Stolworthy
*Ryan Egbert	*Miles McKee	Billy Strong
*Spencer Ewert	Lauren McKinnon	#Manti Su'a
*Matthew Fabiszak	Taylor Meurs	Trent Tipton
JD Falslev	Ailana Meyer	Jeddysiah Tuiloma
*#Meganne Ferrel	#Ryan Miller	**Eleni Tukuafu
Jake Fitisemanu	Jeff Mortensen	Taylor Turnbull
Kenisi Fonoimoana	*Tyler Mower	*David Valentine
*#Spencer Foutz	Orlando Negron	* <sup>1</sup> Elizabeth Vance
Austin Gale	Heankel Oliveros	#*Mark Wadsworth
Harrison Garrett	Maveni Palu	Katrisa Ward
Eden Gillette	Madeline Page	Tyler Weenig
## <sup>1</sup> Josue Murcia Gonzalez	*#Joshua Parker	Michelle Wilkins
*#Aaron Gustin	*#Sheradyn Parker	*Austin Wright
Elizabeth Guy	Braden Patten	* <sup>1</sup> #Sage Wright
Mike Hague	*David Patty	Rachel McDonald Young
* <sup>1</sup> Omoremi Hamblin	Lauren Pennington	

<sup>\*</sup>BYU Undergraduate Research Awards (52 awards/46 students)

<sup>o</sup>Co-author on a Manuscript (34 students on 37 manuscripts)

<sup>1</sup>First Author on a Manuscript (8 students on 10 manuscripts)

<sup>o</sup>Honors Thesis (1)

## OTHER TEACHING AND MENTORING ACTIVITIES

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Principal Investigator and Associate Director

BYU Rheumatic Relief Internship Program

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 highlighted in the [New York Times](#).

1. 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.
2. 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.

\*Mentored Students, BYU Rheumatic Relief Internship Program (Total: 67)

	<u>Name</u>	<u>Major</u>
2019	Ethan Andersen	Neuroscience
	Lizzy Braby	Exercise and Wellness
	Kristin Coggins	Exercise Science
	Kaitlyn Cragun	
	Aubrey Feinour	Physiology and Developmental Biology
	Spencer Gardiner	Chemical Engineering
	Emily Gardner	Economics
	Tanner Bowen Heaton	Biochemistry
	Kameron Ho Ching	Physiology and Developmental Biology
	Katie Long	Economics
	Rachel Lyman	Exercise and Wellness
	Chance Mataalii	Political Science
	Adriella Kealani Rico	Public Health
	Emma Santiago	Nursing premajor
	Michela Sheffield	Nursing
	Kacey Sorenson	English
Ida Tovar	Public Health	
Jeddysiah Tuiloma	Exercise Science	
Sara Tuiloma	Humanities	
2018	Quentinia Aspinall	Medical Laboratory Science premajor
	Erika Bradburn	Nursing premajor
	Joshua John Cassinat	Biology
	Quianna Faamoe	Psychology
	Kenisi Fonoimoana	Medical Laboratory Science

	Tyler Heaton	Bioinformatics
	Kelsey Hogue	Public Health
	Shantelle House	Physiology and Developmental Biology
	Kyle Howard	Biology
	Amanda Huff	Public Health
	Thomas Knapp	Biology
	Emily Loertscher	Genetics, Genomics and Biotechnology
	Nathan Mella	Bioinformatics
	Sam Merrill	Microbiology
	Bailey Morrison	Public Health
	Colton Murray	Global Supply Chain Management
	Amelia Painter	Dietetics
	Ashley Poche	Exercise and Wellness
	Anna Pulido	Medical Laboratory Science
	Emily Romney	Public Health
	Amelia Thompson	Nursing
	Kevin Winchester	Physiology and Developmental Biology
<i>2017</i>	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)**

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<i>2020</i>	Completed tenure and advancement letter for Washington University School of Medicine
<i>2019</i>	Completed tenure and advancement letter for Washington University School of Medicine
<i>2019</i>	Completed tenure and advancement letter for University of Hawaii-Hilo

2019 Completed tenure and advancement letter for Icahn School of Medicine at Mount Sinai

2018 Completed tenure and advancement letter for Washington University School of Medicine

2018 Completed tenure and advancement letter for Indiana University

2018 Reviewed promotion/tenure file for Indiana University School of Medicine

2017 - Present Alzheimer's Assoc. International Conference Scientific Program Committee

2016 Computational Sciences Advisory Group, Michael J. Fox Foundation

2015 Alzheimer's Association International Conference Abstract Reviewer

2014 Completed Tenure Letter for Washington University School of Medicine

2014 - 2016 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)**

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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

## INTRAMURAL CITIZENSHIP ACTIVITIES

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2019 -	University Review Committee
2019	College Grant Reviewer
2018 - 2019	Chair, Department of Biology
2016 - 2018	Associate Chair, Department of Biology
2015 - 2017	College Grant Reviewer
2014 - 2015	College Endowment Committee
2013 - 2014	Special Committee for the University Council
2012 - 2013	John A. Widtsoe Grant Reviewer
2012 - 2013	Bioinformatics Faculty Search Committee Chair
2011 - 2014	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 - 2016	Freshman Admissions Application Reader
2009	Departmental Curriculum Committee
2009	College Research Committee
2000 - 2003	BYUGSA Grant Review Board

## LANGUAGES

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

## MEDIA

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### Radio:

[Alzheimer Research – Matt Townsend Show \(BYU Radio\)](#)

[TREM2 and Other Alzheimer’s disease progress \(BYU Radio MP3\)](#)

[Why is Former NBA Player Shawn Bradley So Tall? \(Top of Mind with Julie Rose – BYU Radio\)](#)

### Video:

[BYU’s life-saving Rheumatic Relief project \(BYU Message 2019\)](#)

### 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 \(KSL News\)](#)

### Articles:

[Shawn Bradley Is Really, Really Tall. But Why?](#)

[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 \(The Record\)](#)