

*Curriculum Vitae*

**JOHN “KEONI” S.K. KAUWE, PHD**

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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

## OTHER EXPERIENCE

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- 2021 **Inventor**
- Bearss, D. J., **Kauwe, J.S.K.**, Mollard A. H. A. (2021). *Inhibitors of NEK7 Kinase* (U.S. Patent No. 11,161,852). U.S. Patent and Trademark Office.
- 2019-Present **Consultant**
- NAD RCMAR Expert Alzheimer's Disease and related Dementias Group
- 2019-Present **Mentor**
- Charleston Conference on Alzheimer's Disease (CCAD)
- 2016 **Organizing Committee Member**
- LDS Life Science Research Symposium
- 2014-2015 **Panelist and Committee Member**
- NIH Alzheimer's Disease Research Summit
- 2013-Present **Principal Investigator and Associate Director**
- BYU Rheumatic Relief Internship Program
- 2013-2016 **Scientific Lead**
- SAGE/DREAM Alzheimer's disease Big Data Challenge
- 2010-Present **Consultant**
- Genoma LLC; Genetic analysis of complex traits.
- 2008-Present **Consultant**
- King's View LLC; Evaluate research and technology and provide scientific advice relating to investment decisions.
- 2005-2008 **Coordinator**
- Biomedical Research Apprenticeship Program Lecture Series. Organized and moderated the summer lecture series.
- 2002-2003 **Vice President**
- Brigham Young University Graduate Student Association. Directed publicity and organized events.

## EXTRAMURAL RESEARCH GRANTS *(Total Funding: \$8,095,376)*

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- 2021 **National Institute of Health National Institute on Aging 1P01AGO66584**  
Natives Engaged in Alzheimer's Research  
Role: Multiple Principal Investigator  
Funding Period: 8/01/2021-04/30/2026 Total Funding: \$1,698,325
- 2020 **National Institutes of Health National Institute on Aging RF1 AG054052-01S1**  
Research Supplements to Promote Diversity in Health-Related Research  
Role: Principal Investigator

- Funding Period: 04/15/2020-03/31/2021 Total Funding: \$76,296
- 2018 **Jay L Smith Foundation**  
 Identification of Alzheimer's disease Risk Variants in High-Risk Pedigrees  
 Role: Principal  
 Funding Period: 01/01/2019 -12/31/2019 Total Funding: \$15,000
- 2017 **Jay L Smith Foundation**  
 Identification of Alzheimer's disease Risk Variants in High-Risk Pedigrees  
 Role: Principal  
 Funding Period: 01/01/2018 -12/31/2018 Total Funding: \$20,000
- 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

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| 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

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*Total publications: 143*

- Page, M.L., Vance, E.L., Cloward, M.E., Ringger, E., Dayton, L., Ebbert, M. T. W., The Alzheimer's Disease Neuroimaging Initiative, Miller, J. B., & **Kauwe, J. S. K.** (2022). The Polygenic Risk Score Knowledge Base offers a centralized online repository for calculating and contextualizing polygenic risk scores. *Commun Biol* 5, 899. <https://doi.org/10.1038/s42003-022-03795-x>
- Pickett, B. D., Glass, J. R., Johnson, T. P., Ridge, P.G., & **Kauwe, J. S. K.** (2022). The genome of a giant (trevally): *Caranx ignobilis*. *Gigabyte*, 1-16. <https://doi.org/10.46471/gigabyte.67>
- Ward, K. M., Pickett, B. D., Ebbert, M., **Kauwe, J.**, & Miller, J. B. (2022). Web-Based Protein Interactions Calculator Identifies Likely Proteome Coevolution with Alzheimer's Disease-Associated Proteins. *Genes*, 13(8), 1346. <https://doi.org/10.3390/genes13081346>
- Miller, J. B., Meurs, T. E., Hodgman, M. W., Song, B., Miller, K. N., Ebbert, M., **Kauwe, J.**, & Ridge, P. G. (2022). The Ramp Atlas: facilitating tissue and cell-specific ramp sequence analyses through an intuitive web interface. *NAR genomics and bioinformatics*, 4(2), lqac039. <https://doi.org/10.1093/nargab/lqac039>
- Bellenguez, C., Küçükali, F., Jansen, I. E., Kleindam, L., Moreno-Grau, S., Amin, N., Naj, A. C., Campos-Martin, R., Grenier-Boley, B., Andrade, V., Holmans, P. A., Boland, A., Damotte, V., van der Lee, S. J., Costa, M. R., Kuulasmaa, T., Yang, Q., de Rojas, I., Bis, J. C., Yaqub, A., ... **Kauwe, J.S.**, ... Lambert, J. C. (2022). New insights into the genetic etiology of Alzheimer's disease and related dementias. *Nature genetics*, 10.1038/s41588-022-01024-z. Advance online publication. <https://doi.org/10.1038/s41588-022-01024-z>
- Pickett, D., Talma, S., Glass, J. R., Ence, D., Johnson, T. P., Cowley, P. D., Ridge, P. G., & **Kauwe, JSK.** (2022). Genome assembly of the roundjaw bonefish (*Albula glossodonta*), avulnerable circumtropical sportfish. *Gigabyte*. <https://doi.org/10.46471/gigabyte.44>
- Shade, L. M., Katsumata, Y., Hohman, T. J., Nho, K., Saykin, A. J., Mukherjee, S., Boehme, K. L., **Kauwe, J. S.**, Farrer, L. A., Schellenberg, G. D., Haines, J. L., Mayeux, R. P., Schneider, J. A., Nelson, P. T., & Fardo, D. W. (2022). Genome-wide association study of brain arteriolosclerosis. *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*, 271678X211066299. Advance online publication. <https://doi.org/10.1177/0271678X211066299>
- Kanaya, A. M., Hsing, A. W., Panapasa, S. V., Kandula, N. R., G Araneta, M. R., Shimbo, D., Wang, P., Gomez, S. L., Lee, J., Narayan, K., Mala Mau, M., Bose, S., Daviglius, M. L., Hu, F. B., Islam, N., Jackson, C. L., Kataoka-Yahiro, M., **Kauwe, J.**, Liu, S., Ma, G. X., ... Hong, Y. (2022). Knowledge Gaps, Challenges, and Opportunities in Health and Prevention Research for Asian Americans, Native Hawaiians, and Pacific Islanders: A Report From the 2021 National Institutes of Health Workshop. *Annals of internal medicine*, 10.7326/M21-3729. Advance online publication. <https://doi.org/10.7326/M21-3729>



- Dugan, A. J., Nelson, P. T., Katsumata, Y., Shade, L., Teylan, M. A., Boehme, K. L., Mukherjee, S., **Kauwe, J.**, Hohman, T. J., Schneider, J. A., Fardo, D. W., & Alzheimer's Disease Genetics Consortium (2021). Association between WWOX/MAF variants and dementia-related neuropathologic endophenotypes. *Neurobiology of aging*, S0197-4580(21)00323-7. Advance online publication. <https://doi.org/10.1016/j.neurobiolaging.2021.10.011>
- Huckvale, E. D., Hodgman, M. W., Greenwood, B. B., Stucki, D. O., Ward, K. M., Ebbert, M., **Kauwe, J.**, The Alzheimer's Disease Neuroimaging Initiative, The Alzheimer's Disease Metabolomics Consortium, & Miller, J. B. (2021). Pairwise Correlation Analysis of the Alzheimer's Disease Neuroimaging Initiative (ADNI) Dataset Reveals Significant Feature Correlation. *Genes*, 12(11), 1661. <https://doi.org/10.3390/genes12111661>
- Dickson, S. P., Hendrix, S. B., Brown, B. L., Ridge, P. G., Nicodemus-Johnson, J., Hardy, M. L., McKeany, A. M., Booth, S. B., Fortna, R. R., **Kauwe, J.**, & NIAGADS (2021). GenoRisk: A polygenic risk score for Alzheimer's disease. *Alzheimer's & dementia (New York, N. Y.)*, 7(1), e12211. <https://doi.org/10.1002/trc2.12211>
- Pickett, B. D., Glass, J. R., Ridge, P. G., & **Kauwe, J.** (2021). De novo genome assembly of the marine teleost, bluefin trevally (*Caranx melampygus*). *G3 (Bethesda, Md.)*, 11(10), jkab229. <https://doi.org/10.1093/g3journal/jkab229>
- Dugan, A. J., Nelson, P. T., Katsumata, Y., Shade, L., Boehme, K. L., Teylan, M. A., Cykowski, M. D., Mukherjee, S., **Kauwe, J.**, Hohman, T. J., Schneider, J. A., Alzheimer's Disease Genetics Consortium, & Fardo, D. W. (2021). Analysis of genes (TMEM106B, GRN, ABCC9, KCNMB2, and APOE) implicated in risk for LATE-NC and hippocampal sclerosis provides pathogenetic insights: a retrospective genetic association study. *Acta neuropathologica communications*, 9(1), 152. <https://doi.org/10.1186/s40478-021-01250-2>
- Teerlink, C. C., Miller, J. B., Vance, E. L., Staley, L. A., Stevens, J., Tavana, J. P., Cloward, M. E., Page, M. L., Dayton, L., Alzheimer's Disease Genetic Consortium, Cannon-Albright, L. A., **Kauwe, J. S. K.** (2021). Analysis of high-risk pedigrees identifies 11 candidate variants for Alzheimer's disease. *Alzheimers Dement.* doi.org/10.1002/alz.12397
- Saito, E. R., Miller, J. B., Harari, O., Cruchaga, C., Mihindikulasuriya, K. A., **Kauwe, J. S. K.**, & Bikman, B. T. (2021). Alzheimer's disease alters oligodendrocytic glycolytic and ketolytic gene expression. *Alzheimers Dement.* doi.org/10.1002/alz.12310
- McKinnon, L. M., Miller, J. B., Whiting, M. F., **Kauwe, J. S. K.**, & Ridge, P. G. (2021). A comprehensive analysis of the phylogenetic signal in ramp sequences in 211 vertebrates. *Sci Rep*, 11(1), 622. doi:10.1038/s41598-020-78803-3
- Glass, J. R., Santos, S. R., **Kauwe, J. S.**, Pickett, B. D., & Near, T. J. (2021). Phylogeography of two marine predators, giant trevally (*Caranx ignobilis*) and bluefin trevally (*Caranx melampygus*), across the Indo-Pacific. *Bulletin of Marine Science*.
- Vance, E., Gonzalez, J. D., Miller, J. B., Alzheimer's Disease Genetics, C., Staley, L., Crane, P. K., Mukherjee, S., & **Kauwe, J. S. K.** (2020). Failure to detect synergy between variants in transferrin and hemochromatosis and Alzheimer's disease in large cohort. *Neurobiol Aging*, 89, 142 e149-142 e112. doi:10.1016/j.neurobiolaging.2020.01.013

- Strickland, S. L., Reddy, J. S., Allen, M., N'Songo, A., Burgess, J. D., Corda, M. M., Ballard, T., Wang, X., Carrasquillo, M. M., Biernacka, J. M., Jenkins, G. D., Mukherjee, S., Boehme, K., Crane, P., **Kauwe, J. S.**, Ertekin-Taner, N., & Alzheimer's Disease Genetics, C. (2020). MAPT haplotype-stratified GWAS reveals differential association for AD risk variants. *Alzheimers Dement*, *16*(7), 983-1002. doi:10.1002/alz.12099
- Sherva, R., Gross, A., Mukherjee, S., Koesterer, R., Amouyel, P., Bellenguez, C., Dufouil, C., Bennett, D. A., Chibnik, L., Cruchaga, C., Del-Aguila, J., Farrer, L. A., Mayeux, R., Munsie, L., Winslow, A., Newhouse, S., Saykin, A. J., **Kauwe, J. S. K.**, Alzheimer's Disease Genetics, C., Crane, P. K., & Green, R. C. (2020). Genome-wide association study of rate of cognitive decline in Alzheimer's disease patients identifies novel genes and pathways. *Alzheimers Dement*, *16*(8), 1134-1145. doi:10.1002/alz.12106
- Sanders, C. L., Rattiner, G. B., Deberard, M. S., Hammond, A. G., Wengreen, H., **Kauwe, J. S. K.**, Buhusi, M., & Tschanz, J. T. (2020). 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*, *75*(9), 1633-1642. doi:10.1093/gerona/glz200
- Murcia, J. D. G., Weinert, A., Freitas, C. M. T., Arens, D. K., Ferrel, M. N., Grose, J. H., Ridge, P. G., Wilson, E., **Kauwe, J. S. K.**, & Weber, K. 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. doi:10.1038/s41598-020-64755-1
- Miller, J. B., Ward, E., Staley, L. A., Stevens, J., Teerlink, C. C., Tavana, J. P., Cloward, M., Page, M., Dayton, L., Alzheimer's Disease Genetics, C., Cannon-Albright, L. A., & **Kauwe, J. S. K.** (2020). Identification and genomic analysis of pedigrees with exceptional longevity identifies candidate rare variants. *Neurobiol Dis*, *143*, 104972. doi:10.1016/j.nbd.2020.104972
- Miller, J. B., McKinnon, L. M., Whiting, M. F., **Kauwe, J. S. K.**, & Ridge, P. G. (2020). Codon Pairs are Phylogenetically Conserved: A comprehensive analysis of codon pairing conservation across the Tree of Life. *PLoS One*, *15*(5), e0232260. doi:10.1371/journal.pone.0232260
- Miller, J. B., & **Kauwe, J. S. K.** (2020). Predicting Clinical Dementia Rating Using Blood RNA Levels. *Genes (Basel)*, *11*(6). doi:10.3390/genes11060706
- Katsumata, Y., Abner, E. L., Karanth, S., Teylan, M. A., Mock, C. N., Cykowski, M. D., Lee, E. B., Boehme, K. L., Mukherjee, S., **Kauwe, J. S. K.**, Kryscio, R. J., Schmitt, F. A., Fardo, D. W., & Nelson, P. T. (2020). Distinct clinicopathologic clusters of persons with TDP-43 proteinopathy. *Acta Neuropathol*, *140*(5), 659-674. doi:10.1007/s00401-020-02211-0
- Hodgman, M. W., Miller, J. B., Meurs, T. E., & **Kauwe, J. S. K.** (2020). CUBAP: an interactive web portal for analyzing codon usage biases across populations. *Nucleic Acids Res*, *48*(19), 11030-11039. doi:10.1093/nar/gkaa863
- Wright, S. M., Jensen, S. L., Cockriel, K. L., Davis, B., Tschanz, J. T., Munger, R. G., Corcoran, C. D., & **Kauwe, J. S. K.** (2019). Association study of rs3846662 with Alzheimer's disease in a population-based cohort: the Cache County Study. *Neurobiol Aging*, *84*, 242 e241-242 e246. doi:10.1016/j.neurobiolaging.2019.03.004
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## COLLABORATING PUBLICATIONS

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*Total collaborating publications: 42*

- Kunkle, B. W., Schmidt, M., Klein, H. U., Naj, A. C., Hamilton-Nelson, K. L., Larson, E. B., Evans, D. A., De Jager, P. L., Crane, P. K., Buxbaum, J. D., Ertekin-Taner, N., Barnes, L. L., Fallin, M. D., Manly, J. J., Go, R., Obisesan, T. O., Kamboh, M. I., Bennett, D. A., Hall, K. S., Goate, A. M., ... Kukull, W. A. (2021). Novel Alzheimer Disease Risk Loci and Pathways in African American Individuals Using the African Genome Resources Panel: A Meta-analysis. *JAMA neurology*, 78(1), 102–113. <https://doi.org/10.1001/jamaneurol.2020.3536>
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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 (61)**

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- Cognitive Function and Healthy Aging, Asian American, Native Hawaiian, and Pacific Islander Health Research Workshop, 2021.
- O ke kahua ma mua, ma hope ke kukulu: The Site First and Then the Building, University of Hawaii, Hilo, 2021
- 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 April 2022)

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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– 2021  |
| Alex Freeman    | MS  | 2016 – 2018 |
| Justin Miller   | PhD | 2018        |
| Dustin Miller   | PhD | 2017– 2021  |

## SUMMARY OF UNDERGRADUATE STUDENT MENTORING: (Students Total: 152)

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

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

#Co-author on a Manuscript (39 students on 39 manuscripts)

<sup>1</sup>First Author on a Manuscript (9 students on 11 manuscripts)

\*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)

|                   | <b><u>Name</u></b>    | <b><u>Major</u></b>                  |
|-------------------|-----------------------|--------------------------------------|
| 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 |

|      |                     |                                     |
|------|---------------------|-------------------------------------|
| 2017 | 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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|      |  |
|------|--|
| 2020 | Completed tenure and advancement letter for Washington University School of Medicine |
| 2019 | Completed tenure and advancement letter for Washington University School of Medicine |
| 2019 | 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 \(The Record\)](#)