

Bjarne R Bartlett PhD

bartleb@farmingdale.edu

An independent, self-motivated scientist with a proven track record of finishing projects through teamwork and collaboration resulting in publications. Experience developing innovative benchtop solutions in fast-paced, multidisciplinary research environments. Has successfully applied a variety of bioinformatics and data science tools to genomics questions across both agricultural and medicinal fields.

Experience

PRODiG+ Fellow, SUNY Farmingdale State College 2024-2026

- Courses Taught: General Biology, Introductory Biology I, Medical Microbiology Lab, Introduction to Biology I Lab

Postdoctoral Fellow, Oregon State University 2022-2024
Mentors: Dr. Christopher Curtin

- Assessed the impact of smoke taint in Wine using thiophenols in combination with volatile phenols as biomarkers
- Developed bioinformatic tools to describe *B. bruxellensis* in New Zealand wines using whole genome sequencing data to determine whether the New Zealand isolates of *B. bruxellensis* are genetically distinct
- Used phylogenetic and bioinformatic tools including RAXML, BWA, SRA Toolkit to identify *Komagataeibacter* species with the potential to fix nitrogen using genomic traits
- Developed an interactive Shiny app in R for brewers to analyze yeast counts

Bioinformatics Consultant, Viracta Therapeutics 2022-2024
Mentor: Dr. Andrew Skora

- Supported research as an outside subject matter expert in bioinformatics
- Organized and analyzed data in support of drug discovery

Data Science Graduate Fellowship, The University of Hawai'i at Mānoa 2017-2022
Mentors: Drs. Mikey Kantar, Jon-Paul Bingham, Monica Stitt-Bergh, Amy Hubbard, Gernot Presting, Youping Deng, Sean Clevaland, Gwen Jacobs

- **Doctoral dissertation:** *Data Science for Molecular Genetics and Communication in the Natural Sciences*
- Developed prognostic signatures for patients with colorectal cancer using The Cancer Genome Atlas, sequence alignment tools, and R statistical analysis – project published in the *International Journal of Computational Biology and Drug Design*
- Explored the miRNA expression profiles of inflammatory tumors using R and data from The Cancer Genome Atlas – found both TGF- β and M1 macrophage polarization state could suggest individual tumors susceptible to treatment by checkpoint blockade immunotherapy
- Identified data from Altmetrics, a research attention metric, as a less gender-biased measure of research productivity than traditional metrics using Python and Jupyter Notebooks, leading to publications in *Scientometrics* and *Nature Index*
- Performed a genome and transcriptome assembly of *Macadamia tetraphylla*, a crop wild relative of *Macadamia integrifolia*, to investigate potential mechanisms for disease resistant crops by mapping short-read sequencing data to a combination genome built using sppIDer
- Developed a genomic fingerprint for *Colocasia esculenta* by identifying genetic regions capable of distinguishing between Hawaiian and non-Hawaiian varieties

Consultant, Personal Genome Diagnostics

2015-2017

Mentors: Drs. Luis Diaz, Victor Velculescu, Lisa Kann

- Initiated and completed the validation of a new peripheral blood test to detect clinically actionable genetic alterations in non-small cell lung cancer patients
- Followed CLIA approved protocols to prepare clinical samples for a variety next generation sequencing assays

Research Specialist, Johns Hopkins School of Medicine, Department of Oncology

2012-2017

Mentors: Drs. Bert Vogelstein, Ken Kinzler, and Luis Diaz

- Designed and coordinated a phase 2 clinical trial, testing the efficacy of anti-programmed-death-1 (anti-PD-1) therapy in mismatch repair deficient tumors leading to a publication in the *New England Journal of Medicine*
- Identified and screened over 500 patients for ongoing enrollment on the anti-pd-1 clinical trial
- Developed a bioinformatics pipeline in UNIX using Python and NetMHC 3.4 to predict neoepitope burden in tumors of immunotherapy patients
- Evaluated the sensitivity and specificity of circulating tumor DNA (ctDNA) in peripheral blood as a non-invasive diagnostic test for cancer by collecting blood and isolating ctDNA in 640 patients leading to a publication in *Science Translational Medicine*
- Developed a phase 3 clinical trial protocol to test DNA from the Papanicolaou test as a non-invasive diagnostic for ovarian or endometrial cancers and optimized collection methods in the protocol to increase the sensitivity of the test
- Performed correlative studies and data analysis to corroborate a clinical trial showing the efficacy of combining gemcitabine, taxotere, and xeloda (GTX) with cisplatin for metastatic pancreatic cancer

EDUCATION

BS, Gettysburg College

2008-2012

- Major: Biology
- Kappa Delta Pi Honor Society, Secretary

PhD, The University of Hawai'i at Mānoa

2017-2022

- Molecular Biosciences and Bioengineering

COMPUTER/LAB SKILLS**Programming Languages:** R, Python, Java, HTML, JavaScript, CSS**Bioinformatic Skills:** Processing and analyzing next generation sequencing data, somatic cancer mutation analysis, cancer neoantigen analysis, microbiome analysis, cancer biomarker discovery, genome assembly, DNA microsatellite instability analysis, yeast genomic analysis, bioinformatic analysis for molecular cloning, machine learning for data science**Lab Skills:** Preparation and storage of clinical samples including blood, saliva, fresh tumor tissue, lymphocytes, and fixed tissue; DNA extraction from whole blood and blood plasma; dual DNA extractions from formalin fixed tissue for comparative tumor/normal next generation sequencing of cancers; blood fractionation; Ficoll separations; fermentation biochemistry; benchtop bioreactor design; molecular cloning

MANUSCRIPTS IN PREPARATION

- **Bartlett BR**, Zamora CM[^], Bingham JP, Hubbard A, Runck B, Kantar MB. "Journal influence on the short and long term impact of science." In preparation.

PUBLICATIONS

- Bartlett, B., Stitt-Bergh, M., Kantar, M., & Bingham, J. P. (2023). A data science practicum to introduce undergraduate students to bioinformatics for research. *Biochemistry and Molecular Biology Education*, 51(5), 520-528.
conception/design (90%)
acquisition/analysis of data (100%)
drafted/revised the manuscript (90%)
- Tamrazi, A., Sundaresan, S., Gulati, A., Tan, F. J., Wadhwa, V., Bartlett, B. R., & Diaz Jr, L. A. (2023). Endovascular image-guided sampling of tumor-draining veins provides an enriched source of oncological biomarkers. *Frontiers in Oncology*, 13, 1166.
- Bartlett, B., Cho, A., Laspisa, D., Gore, M. A., & Kantar, M. B. (2023). Genomic resources for *Macadamia tetraphylla* and an examination of its historic use as a crop resource in Hawaii. *bioRxiv*, 2023-12.
conception/design (90%)
acquisition/analysis of data (90%)
creation of new software (100%)
drafted/revised the manuscript (90%)
- Paudel, R., Bartlett, B., Zamora, C.M., Keach, J.E., Gutierrez-Coarite, R., Hawkins, J., Ahmad, A., Motomura-Wages, S., Kirk, E.R., Kantar, M.B. and Lamour, K.H., 2022. Breeding and selection of taro (*Colocasia esculenta*) for improved disease-resistance in Hawai'i. *Plants, People, Planet*.
conception/design (50%)
acquisition/analysis of data (50%)
creation of new software (100%)
drafted/revised the manuscript (20%)
- **Bartlett B**, Gao Z, Schukking M, Menor M, Khadka VS, Fabbri M, Deng Y. The miRNA Profile of Inflammatory Colorectal Tumors Identify TGF- β as a Companion Target for Checkpoint Blockade Immunotherapy. *Frontiers in Cell and Developmental Biology*. 2021 Oct: 2757.
conception/design (100%)
acquisition/analysis of data (50%)
creation of new software (100%)
drafted/revised the manuscript (50%)
- Fortin J, **Bartlett B**, Kantar M, Tseng M, Mehrabi Z. "Digital technology helps remove gender bias in academia." *Scientometrics*. 2021 May;126(5):4073-81.
conception/design (10%)
acquisition/analysis of data (40%)
creation of new software (40%)
drafted/revised the manuscript (40%)
- **Bartlett B**, Fortin J, Kantar M, Tseng M, Mehrabi Z. "How altmetrics could help level the playing field for women in STEM." *Nature Index*. 2021 March.

- conception/design (90%)
 - acquisition/analysis of data (90%)
 - creation of new software (n/a)
 - drafted/revised the manuscript (40%)
- **Bartlett B**, Zhu Y, Menor M, Khadka VS, Zhang J, Zheng J, Jiang B, Deng Y. "Development of a RNA-Seq based prognostic signature for colon cancer." *International Journal of Computational Biology and Drug Design*. 2020;13(5-6):488-503.
 - conception/design (90%)
 - acquisition/analysis of data (90%)
 - creation of new software (90%)
 - drafted/revised the manuscript (90%)
- Georgiadis A, Durham JN, Keefer LA, **Bartlett BR**, Zielonka M, Murphy D, White JR, Lu S, Verner EL, Ruan F, Riley D, Anders RA, Gedvilaite E, Angiuoli S, Jones S, Velculescu VE, Le DT, Diaz Jr. LA, Sausen M. "Noninvasive detection of microsatellite instability and high tumor mutation burden in cancer patients treated with PD-1 blockade." *Clinical Cancer Research*. 2019 Dec 1;25(23):7024-34.
 - conception/design (10%)
 - acquisition/analysis of data (50%)
 - creation of new software (10%)
 - drafted/revised the manuscript (10%)
- Smith KN, Llosa NJ, Cottrell TR, Siegel N, Fan H, Suri P, Chan HY, Guo H, Oke T, Awan AH, Verde F, Danilova L, Anagnostou V, Tam AJ, Lubner BS, **Bartlett BR**, Aulakh LK, Sidhom JW, Zhu Q, Sears CL, Cope L, Sharfman WH, Thompson ED, Riemer J, Marrone KA, Naidoo J, Velculescu VE, Forde PM, Vogelstein B, Kinzler KW, Papadopoulos N, Durham JN, Wang H, Le DT, Justesen S, Taube JM, Diaz Jr. LA, Brahmer JR, Pardoll DM, Anders RA, Housseau F. "Persistent mutant oncogene specific T cells in two patients benefitting from anti-PD-1." *Journal for immunotherapy of cancer*. 2019 Dec;7(1):40.
 - conception/design (10%)
 - acquisition/analysis of data (10%)
 - creation of new software (50%)
 - drafted/revised the manuscript (10%)
- Llosa NJ, Lubner B, Tam AJ, Smith KN, Siegel N, Awan AH, Fan H, Oke T, Zhang J, Domingue J, Engle EL, Roberts CA, **Bartlett BR**, Aulakh LK, Thompson ED, Taube JM, Durham JN, Sears CL, Le DT, Diaz Jr. LA, Pardoll DM, Wang H, Anders RA, Housseau F. "Intratumoral Adaptive Immunosuppression and Type 17 Immunity in Mismatch Repair Proficient Colorectal Tumors." *Clinical Cancer Research*. 2019 May 6.
 - conception/design (10%)
 - acquisition/analysis of data (50%)
 - creation of new software (50%)
 - drafted/revised the manuscript (10%)
- Mandal R, Samstein RM, Lee KW, Havel JJ, Wang H, Krishna C, Sabio EY, Makarov V, Kuo F, Blechman P, Ramaswamy AT, Durham JN, **Bartlett B**, Ma X, Srivastava R, Middha S, Zehir A, Hechtman JF, Morris L GT, Weinhold N, Riaz N, Le DT, Diaz Jr. LA, Chan TA. "Genetic diversity of tumors with mismatch repair deficiency influences anti-PD-1 immunotherapy response." *Science*. 2019 May 3;364(6439):485-91.*
 - conception/design (20%)
 - acquisition/analysis of data (30%)
 - creation of new software (50%)
 - drafted/revised the manuscript (20%)

- Le DT, Durham JN, Smith KN, Wang H, **Bartlett BR**, Aulakh LK, Lu S, Kemberling H, Wilt C, Lubber BS, Wong F, Azad NF, Rucki AA, Laheru D, Donehower R, Zaheer A, Fisher GA, Crocenzi TS, Lee JJ, Greten TF, Duffy AG, Ciombor KK, Eyring AD, Lam BH, Joe A, Kang SP, Holdhoff M, Danilova L, Cope L, Meyer C, Zhou S, Goldberg RM, Armstrong DK, Bever KM, Fader AN, Taube J, Housseau F, Spetzler D, Xiao N, Pardoll DM, Papadopoulos N, Kinzler KW, Eshleman JR, Vogelstein B, Anders RA, Diaz Jr. LA. "Mismatch repair deficiency predicts response of solid tumors to PD-1 blockade." *Science*. 2017 Jul 28;357(6349):409-13. *
 conception/design (5%)
 acquisition/analysis of data (20%)
 creation of new software (50%)
 drafted/revised the manuscript (5%)
- Parpart-Li S, **Bartlett B**, Popoli M, Adleff V, Tucker L, Steinberg R, Georgiadis A, Phallen J, Brahmer JR, Azad NA, Browner I, Laheru D, Velculescu V, Sausen M, Diaz LA Jr. "The effect of preservative and temperature on the analysis of circulating tumor DNA." *Clinical Cancer Research*. 2016; 23 (10): 2471-2477.*
 conception/design (50%)
 acquisition/analysis of data (50%)
 creation of new software (n/a)
 drafted/revised the manuscript (50%)
- Le DT, Uram JN, Wang H, **Bartlett BR**, Kemberling H, Eyring AD, Skora AD, Lubber BS, Azad NS, Laheru D, Biedrzycki B, Donehower RC, Zaheer A, Fisher GA, Crocenzi TS, Lee JJ, Duffy SM, Goldberg RM, de la Chapelle A, Koshiji M, Bhaijee F, Huebner T, Hruban RH, Wood LD, Cuka N, Pardoll DM, Papadopoulos N, Kinzler KW, Zhou S, Cornish TC, Taube JM, Anders RA, Eshleman JR, Vogelstein B, Diaz Jr. LA. "PD-1 blockade in tumors with mismatch-repair deficiency." *New England Journal of Medicine*. 2015; 372(26):2509-2520. *
 conception/design (10%)
 acquisition/analysis of data (30%)
 creation of new software (90%)
 drafted/revised the manuscript (10%)
- Bettegowda C, Sausen M, Leary RJ, Kinde I, Wang Y, Agrawal N, **Bartlett BR**, Wang H, Lubber B, Alani RM, Antonarakis ES, Azad NS, Bardelli A, Brem H, Cameron JL, Lee CC, Fecher LA, Gallia GL, Gibbs P, Le DT, Giuntoli RL, Goggins M, Hogarty MD, Holdhoff M, Hong SM, Jiao Y, Juhl HH, Kim JJ, Siravegna G, Laheru DA, Lauricella C, Lim M, Lipson EJ, Marie SKN, Netto GJ, Oliner KS, Olivi A, Olsson L, Riggins GJ, Sartore-Bianchi A, Schmidt K, Shih LM, Oba-Shinjo SM, Siena S, Theodorescu D, Tie J, Harkins TT, Veronese S, Wang TL, Weingart JD, Wolfgang CL, Wood LD, Xing D, Hruban RH, Wu J, Allen PJ, Schmidt CM, Choti MA, Velculescu VE, Kinzler KW, Vogelstein B, Papadopoulos N, Diaz Jr. LA. "Detection of circulating tumor DNA in early- and late-stage human malignancies." *Science Translational Medicine*. 2014; 6(224):224ra24. *
 conception/design (5%)
 acquisition/analysis of data (10%)
 creation of new software (10%)
 drafted/revised the manuscript (5%)

*Cited more than 100 times

^Undergraduate Student Author

POSTERS AND PRESENTATIONS

- **Bartlett BR**. "Using RNA-Seq to Predict Prognosis for Colon Cancer Patients." International Conference on Intelligent Biology and Medicine (2019). Selected for oral presentation.
- Yu Z, Zhu Y, Ai J, **Bartlett B**, Zhang J, Jiang B, Deng Y. "Development of predictive models to distinguish metals from non-metal toxicants, and individual metal from one another."

International Conference on Intelligent Biology and Medicine (2019). Selected for oral presentation.

- **Bartlett BR.** "The miRNA Expression Profile of Inflammatory Tumors Reveals a Unique Immune Cell Profile and Potential Companion Targets for Checkpoint Blockade Immunotherapy." AACR-JCA Joint Conference (2019). Selected for poster.
- **Bartlett B,** Khadka V, Menor M, Deng Y. "The miRNA expression profile of inflammatory tumors reveals a unique immune cell profile and potential companion targets for checkpoint blockade immunotherapy." AACR (2019). Selected for poster.
- Georgiadis A, Durham JN, Keefer L, **Bartlett BR,** Zielonka M, Murphy D, White JR, Lu S, Verner E, Ruan F, Riley D. "Analysis of cell-free plasma DNA to identify tumors with microsatellite instability and exceptionally high tumor mutation burden in patients treated with PD-1 blockade." European Journal Of Cancer (2018).
- **Bartlett BR.** "Developing a solid-tumor screening program checkpoint blockade immunotherapy." The University of Hawai'i (2017). Invited speaker.
- Parpart-Li ST, **Bartlett B,** Popoli M, Adleff V, Brahmer J, Azad N, Bonerigo S, Browner I, Ryan A, Velculescu V, Sausen M. "Optimized plasma collection procedures for liquid biopsy analyses in cancer." AACR (2016).
- Le DT, Uram JN, Wang H, **Bartlett B,** Kemberling H, Eyring A, Azad NS, Laheru D, Donehower RC, Crocenzi TS, Goldberg RM. "Programmed death-1 blockade in mismatch repair deficient colorectal cancer." Journal of Clinical Oncology (ASCO Meeting Abstracts) 2016
- Diaz LA, Uram JN, Wang H, **Bartlett B,** Kemberling H, Eyring A, Azad NS, Dausen T, Laheru D, Lee JJ, Crocenzi TS. "Programmed death-1 blockade in mismatch repair deficient cancer independent of tumor histology." Journal of Clinical Oncology (ASCO Meeting Abstracts) 2016
- Le DT, Uram JN, Wang H, Kemberling H, Eyring A, **Bartlett B,** Goldberg R, Crocenzi TS, Fisher GA, Lee JJ, Greten TF, Laheru DA, Azad NS, Donehower RC, Luber B, Koshiji M, Eshleman JR, Anders RA, Vogelstein B, Diaz LA. "PD-1 blockade in mismatch repair deficient non-colorectal gastrointestinal cancers." Journal of Clinical Oncology (ASCO Meeting Abstracts). 2016;34;(abstracts 195).
- Parpart-Li S, **Bartlett B,** Brahmer J, Azad N, Bonerigo S, Browner I, Ryan A, Velculescu V, Sausen M, Diaz L. "Optimized plasma collection procedures for cell-free DNA analysis in advances malignancies." Circulating nucleic acids in plasma and serum (CNAPS) IX congress (2015). Selected for oral presentation.
- Le DT, Uram JN, Wang H, **Bartlett B,** Kemberling H, Eyring A, Skora A, Azad NS, Laheru DA, Donehower RC, Luber B, Crocenzi TS, Fisher GA, Duffy SM, Lee JJ, Koshiji M, Eshleman JR, Anders RA, Vogelstein B, Diaz LA. "PD-1 blockade in tumors with mismatch repair deficiency." Journal of Clinical Oncology (ASCO Meeting Abstracts). 2015;33(15);(abstracts LBA100).
- Wang JS, Sausen M, Parpart-Li S, Murphy DM, Velculescu VE, Wood LD, Solt-Linville S, Sugar E, **Bartlett B,** Blair C, Dausen T, Jaffee EM, Hruban RH, Laheru D, Diaz LA. "Circulating tumor DNA (ctDNA) as a prognostic marker for recurrence in resected pancreas cancer." Journal of Clinical Oncology (ASCO Meeting Abstracts). 2015;33(15):11025.
- Bettgowda C, Sausen M, Leary R, Kinde I, Agrawal N, **Bartlett B,** Wang H, Luber B, Kinzler K, Vogelstein B, Papadopoulos N, Diaz L. "Abstract 5606: Detection of circulating tumor DNA in early and late stage human malignancies." *Cancer Research*. 2014; 74(19 Supplement):5606.
- **Bartlett BR,** Keane B, Fong P. "The Effect of Venlofaxin on the Burrowing Speed of *Corbicula fluminea*." Gettysburg College capstone poster presentation. 2011. (Advisor Dr. Peter Fong).

HONORS AND AWARDS

CI-TRACS Data Science Fellow, University of Hawai'i Cyberinfrastructure 2021

- Selected to be a fellow with the Hawai'i Data Science Institute as part of a \$1 million National Science Foundation grant to increase student cyberinfrastructure skills in climate science.
- Article: [\\$1M supports resilience to climate change through cyberinfrastructure training](#)

Featured Researcher, University of Hawai'i News

2021

- Article: [New metrics could reduce gender gap in STEM fields](#)

Merit-Based Scholarship, MBBE 2020

- Received a \$1,000.00, merit-based scholarship for academic productivity as a graduate student

Recognition for 50 Years of Broadcasting, Honolulu City Council 2019

- KTUH Honolulu recognized for 50 years of college radio broadcasting

Scholar in Training Award Recipient, AACR-JCA Joint Conference 2019

- Received an \$800.00, merit-based award from AACR to present Master's Degree thesis project: "The miRNA Expression Profile of Inflammatory Tumors Reveals a Unique Immune Cell Profile and Potential Companion Targets for Checkpoint Blockade Immunotherapy."

Travel Award Recipient, The International Conference on Intelligent Biology & Medicine 2019

- Received a \$600.00, merit-based award from ICIBM to present master's research project: "Using RNA-Seq to Predict Prognosis for Colon Cancer Patients"

Best College Radio Website, College Broadcasters International 2019

- As Web Director recognized as a finalist for best college radio website: KTUH.org

CONFERENCES/PROFESSIONAL SOCIETIES

Member, Institute of Electrical and Electronics Engineers 2017-present

Associate Member, The American Association for Cancer Research 2016-present

Member, American Association for the Advancement of Science 2016-present

Meeting Volunteer, American Association for the Advancement of Science (Seattle, WA) 2020

- Volunteered as a staff member and educator for AAAS Family Science Days, a free public science event offering child-friendly activities.

Meeting Coordinator, International Conference of Translational Medicine (Honolulu, HI) 2019

- Collaborated with scientists from Asia to organize a 2-day, international meeting on translational medicine

Meeting Volunteer, Engineering in Medicine and Biology Conference (Honolulu, HI) 2018

Host: Institute of Electrical and Electronics Engineers

- In addition to the meeting, attended a special workshop: "Writing a patent application for biomedical technologies. How to do it, what is important, how to write claims and where to file?"

Secretary General, Circulating Nucleic Acids in Plasma and Serum Meeting (CNAPS VIII) 2013

- Organized an international meeting for over 250 scientists
- Recruited 20 internationally recognized speakers to lecture and chair 5 sessions
- Identified promising abstracts and forwarded them to session chairs
- Managed a \$150,000 meeting budget

TEACHING

Research Mentor, University of Hawai'i, Research Experience for Undergraduates 2021

Mentee: Carter Zamora from Gettysburg College

- Performed basic computational biology and analysis in R and using the University of Hawai'i High Performance Computing Cluster.

Graduate Teaching Assistant, University of Hawai'i, INBRE Program 2020-2021

- Taught Introductory Bioinformatics Seminar

Graduate Teaching Assistant, University of Hawai'i, Department of Microbiology 2018

- Taught MICR 461L, a lab-based immunology course

Student Research Advisor, Johns Hopkins School of Medicine, Department of Oncology 2013-2017

- Laboratory of Bert Vogelstein, Ken Kinzler, and Luis Diaz
 - Supervised 3 summer rotation students working independently on research projects related to ongoing clinical trials

Peer Learning Associate, Gettysburg College 2010-2012

- The Joy of Science: Returning Discovery to Science Learning, Educational Psychology, The Social Foundations of Education
- Assisted faculty in teaching 2 core education courses
- Designed and led outside class sessions for a seminar on STEM education

FUNDING RECEIVED

SEED IDEAS Diversity Grant, Kantar Lab 2020

- Topic: How altmetrics could help level the playing field for women in STEM
- Recipient of a SEED IDEAS grant to bring a visiting scholar to discuss *Digital technology helps remove gender bias in academia*

SEED IDEAS Diversity Grant, KTUH Honolulu 2019

- Topic: MALAMA Aquaponics Program
- Recipient of a SEED IDEAS grant to produce the first podcasts from KTUH

AAAS Science Outreach Grant, Kantar Lab 2018

- Topic: The Power of Infographics
- Recipient of an AAAS communicating science grant with Dr. Michael Kantar

COMMUNITY SERVICE/LEADERSHIP

General Manager, KTUH Honolulu 2018-2021

- Promoted from Web Director & Program Director
- Successfully tripled annual KTUH fundraising goals for 2 years as station director
- Managed a student-fee funded budget of \$111,000
- Founded and managed an endowment fund for KTUH of \$50,000
- Founded and managed an endowed scholarship fund for KTUH of \$50,000
- Created a brand-new website which was selected as the finalist at College Broadcasters International
- Hosted 50th anniversary concert series with finale concert headlined by Richard Thompson
- Produced and curated an exhibit at the Hamilton Library
- Started the first KTUH-hosted podcast channel (as Program Director) made available on SoundCloud, iTunes and other platforms

Volunteer, GENE-ius Day Summer Program 2019

- Coordinated *Speaking Science*, a summer program for local high school students in Hawai'i.
- Students worked in teams to produce podcast episodes about research at the University of Hawai'i at Mānoa

Team Captain, Swim Across America Baltimore 2012-2015

- Grew the Johns Hopkins Kimmel Cancer Center team from 5 to 18 participants
- Increased fundraising from \$2000.00 in 2012 to over \$12,000.00 in 2015

Co-director Planning Committee, Johns Hopkins Oncology Survivor Clinic *2012-2015*

- Designed and implemented the first retreat at Johns Hopkins for patients with metastatic colon cancer and their spouses
- Hosted retreats on an annual basis and expanded to patients with pancreatic cancer because of the success of the initial events
- Recruited experts in oncology, nutrition, complementary and alternative medicine, and finance

Runner, Baltimore Running Festival *2014*

- Ran on the Pancreatic Cancer Action Network's relay team for the Baltimore marathon

Tutor, El Centro Community Center (Gettysburg, PA) *2010-2012*

- Tutored reading and English to students from local Gettysburg schools

College Life Technician, Gettysburg College *2009-2012*

- Contact event sponsors to ensure timely setup and correct equipment has been requested
- Operate lighting and sound equipment at The Attic, The Junction, and The Ballroom
- Performances included formal dances, professional bands, speakers, soloists, and student groups

Residence Coordinator, Gettysburg College *2009-2012*

- One of two junior students selected to be residence coordinators
- Supervised four student staff members in Residence Life
- Directed RISE, an organization that implemented substance free programming on campus

REFERENCES

Christopher D. Curtin

3051 SW Campus Way, Wiegand Hall, Corvallis, OR 97331

(541)737-1599

christopher.curtin@oregonstate.edu

Direct supervisor at Oregon State University.

Michael B. Kantar

3190 Maile Way, Room 102, Honolulu, Hawaii 96822

(808) 956-2162

mbkantar@hawaii.edu

Direct supervisor and doctoral committee chair at the University of Hawai'i.

Jon-Paul Bingham

1955 East West Rd. Agricultural Sciences 218, Honolulu, HI 96822

(808) 956-4864

jbingham@hawaii.edu

Teaching supervisor and graduate chair at the University of Hawai'i.

Luis A. Diaz Jr. MD

1275 York Avenue, New York, NY 10065

(646)888-4204

ldiaz@mskcc.org

Direct supervisor and research mentor at Johns Hopkins University.