Computational Biologist, LinkedIn: colbyford Cloud AI & Genomics Architect GitHub: colbyford

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Education

The University of North Carolina at Charlotte

2018 Doctor of Philosophy in Bioinformatics and Computational Biology

Advisor: Daniel Janies, Ph.D.

Dissertation: An Integrated Phylogeographic Analysis of the Bantu Migration

Wayland H. Cato Doctoral Fellow

2015 Master of Science in Data Science and Business Analytics

Advisor: Mirsad Hadžikadić, Ph.D.

2014 Bachelor of Arts in Applied Mathematics, Concentration in Statistics

Advisor: Mary Kim Harris, Ed.D. Coffey Scholar, C.L. Robbins Scholar

Industry Positions

Seagen

Established a scalable cloud computing architecture on Azure to support the Tactical Biomarkers group in the discovery of therapeutic targets for antibody development in oncology. This includes an automated Kubernetes-based workflow for scalable RNAseq, WES, and pharmacodynamics pipelines along with supporting data platform and machine learning architecture.

September 2021 - Present Sr. Cloud Engineer, Bioinformatics March 2021 - September 2021 Sr. Scientist, Bioinformatics

Tuple (a Microsoft Partner)

Founded a Microsoft partner firm that provides cloud architecture and research consulting services based on the Azure cloud, focusing on cloud life science and genomics solutions. Co-wrote the Azure Data Scientist Microsoft Certified Solution Associate exam (DP-100) and the MS Learn Azure Data Scientist exam.

September 2019 - Present Founder & Principal Consultant

Amissa

Co-founded Amissa, a digital health company that's using cloud-based AI and analytics with wearable devices to help in the fight against Alzheimer's disease. Designed and built the Sinuo platform, which applies state-of-the-art artificial intelligence techniques to sensory data, biomarkers, and additional patient metrics. Amissa's work has been funded by NSF and NIH's National Institute for Aging.

March 2020 - Present Co-Founder & VP of Technology

BlueGranite (a Microsoft Partner)

Developed data platform and AI solutions using the Microsoft Azure cloud with services such as Azure Machine Learning Service, Cognitive Services, and Databricks (Apache Spark). Hosted many training workshops and gave conference presentations and demonstrations on Microsoft advanced analytics technologies. Started and led the genomics practice, building scalable solutions for bioinformatics analyses in Azure. (BlueGranite.com/Genomics)

May 2020 - October 2021 Principal Architect, Life Sciences
December 2020 - May 2020 Genomics Practice Lead
November 2018 - December 2020 Solution Architect, Artificial Intelligence
January 2017 - November 2018 Senior Data Scientist

Edge Systems - The HydraFacial Company

Lead the data science and cloud infrastructure team through research and development initiatives related to IoT medical device informatics. Responsible for innovation with product marketing and engineering to improve and enhance technology products and processes. Implemented computer vision capabilities on the HydraFacial skin analyzer device for detection and classification of skin conditions.

July 2019 - March 2020 Director of Data Science

Ember.AI

Developed a custom artificial intelligence engine for building state-of-the-art natural language processing models for fraud and compliance-related use cases. Built a large-scale, massively parallel processing architecture using Amazon Web Services and Databricks (Apache Spark) for interactive model training.

August 2018 - March 2020 Chief Data Scientist

AmerisourceBergen - Lash Group

Developed machine learning experiments and data analysis workflows to aid in pharmaceutical client analytics. Created analysis pipelines for the discovery and understanding into patient drug adherence and rare disease drug access. Consulted in company data architecture including master data management and governance for future business strategy to grow value for client accounts.

February 2016 - February 2017 Senior Data Science Lead

Mariner (a Microsoft Partner)

Consulted in the development of machine learning experiments, including parametric and non-parametric models, statistical predictions, and data mining. Built Azure cloud-based solutions for data collection, processing, and storage using Microsoft Azure Technologies such as Data Science Virtual Machines, Machine Learning Studio, Azure SQL Database, and more. Designed and created interactive visualizations for both dashboarding and reporting using Microsoft Power BI, Tableau Desktop & Tableau Server.

October 2014 - February 2016 Data Scientist

Academic Positions

The University of North Carolina at Charlotte

Redesigned and taught *Cloud Computing for Data Analysis* (DSBA 6190) for the School of Data Science Master's program. Received a funding grant from Microsoft to modernize and rebuild the course content on the Azure cloud platform. Performing research in a broad range of fields in the bioinformatics and computational biology space including infectious diseases, epistasis, human genomics, and phylogenetics.

November 2021 - Present	Associate Faculty	School of Data Science
July 2021 - Present	University Business Partner	Research and Economic Development
January 2021 - May 2021	Public Health Researcher	Dept. of Public Health
January 2019 - July 2021	Bioinformatics Researcher	Dept. of Bioinformatics and Genomics
January 2019 - May 2021	Associate Faculty	School of Data Science
April 2018 - December 2018	Postdoctoral Researcher	Dept. of Bioinformatics and Genomics
May 2016 - April 2018	Research Assistant	Dept. of Bioinformatics and Genomics

Northeastern University

Taught a summer session of machine learning to graduate students in the LEVEL analytics program.

May 2015 - August 2015 Guest Lecturer Dept. of Business and Analytics

North Carolina New Schools

Responsible for entire technology inventory: ordering, maintenance, management, etc. and maintained school website. Liaison between college (CCC&TI) and high school technology departments. Taught NCVPS mathematics courses, held additional teaching sessions in math and science and SAT & ACT preparation.

April 2014 - October 2014 Technology Facilitator Caldwell Early College
April 2014 - October 2014 Mathematics Instructional Assistant Caldwell Early College

Publications

Journal Articles

J14. Candace S. Brown, Katherine Ramos, Bridget Jules, Kira Chiles, Catherine Luba, Samantha Juda, Niyathi Sulkunte, **Colby T. Ford**, and Franck Diaz-Garelli. The Effects of the COVID-19 Pandemic on Exercise Motivation by Employment. *International Journal of Environmental Research and Public Health (In Review.)*, 2021

- J13. Dorcas Bredu, George K. Ahadzi, Donu Dickson, Sherik-fa Anang, Alexander Asamoah, George Asumah, Nana Prepah, Dorcas Obiri Yeboah, **Colby T. Ford**, Eugenia Lo, Keziah Laurencia Malm, and Linda Eva Amoah. Diversity of the *Pfhrp2* gene in *P. falciparum* Circulating in Symptomatic Malaria Patients Across Ghana. *In Progress.*, 2021
- J12. Anthony Ford, Daniel Kepple, Jonathan Williams, Gabrielle Kolesar, **Colby T. Ford**, Abnet Abebe, Lemu Golassa, Daniel A. Janies, Delenasaw Yewhalaw, and Eugenia Lo. Polymorphisms and detective power of gametocyte genes among *Plasmodium vivax* geographical isolates. *Frontiers in Cellular and Infection Microbiology (In Review.)*, 2021
- J11. Colby T. Ford, Gezahegn Solomon Alemayehu, Kayla Blackburn, Karen Lopez, Cheikh Cambel Dieng, Lemu Golassa, Eugenia Lo, and Daniel Janies. Modeling plasmodium falciparum diagnostic test sensitivity using machine learning with histidine-rich protein 2 variants. *Frontiers in Tropical Diseases*, 2:28, 2021
- J10. **Colby T. Ford**, Rachel Scott, Denis Jacob Machado, and Daniel Janies. Sequencing Data of North American SARS-CoV-2 Isolates Shows Widespread Complex Variants. *medRxiv*, 2021
- Jg. Anthony Ford, Daniel Kepple, Beka Raya Abagero, Jordan Connors, Richard Pearson, Sarah Auburn, Sisay Getachew, Colby T. Ford, Karthigayan Gunalan, Louis H. Miller, Daniel A. Janies, Julian C. Rayner, Guiyun Yan, Delenasaw Yewhalaw, and Eugenia Lo. Whole genome sequencing of plasmodium vivax isolates reveals frequent sequence and structural polymorphisms in erythrocyte binding genes. *PLOS Neglected Tropical Diseases*, 14(10):1–27, 10 2020
- J8. Colby T. Ford, Gabriel Lopez Zenarosa, Kevin B. Smith, David C. Brown, John Williams, and Daniel Janies. Genetic Capitalism and Stabilizing Selection of Antimicrobial Resistance Genotypes in *Escherichia coli*. *Cladistics*, 2020
- J7. **Colby T. Ford**, Jia Wen, Daniel Janies, and Xinghua Shi. A Parallelized Strategy for Epistasis Analysis Based on Empirical Bayesian Elastic Net Models. *Bioinformatics*, 03 2020. btaa216
- J6. **Colby T. Ford** and Daniel Janies. Ensemble machine learning modeling for the prediction of artemisinin resistance in malaria. *F1000Research*, 9(62), 2020
- J5. Adriano de Bernardi Schneider, **Colby T. Ford**, Reilly Hostager, John Williams, Michael Cioce, Ümit V. Catalyürek, Joel O Wertheim, and Daniel Janies. StrainHub: A phylogenetic tool to construct pathogen transmission networks. *Bioinformatics*, o8 2019
- J4. Wyatt T. Clark, Laura Kasak, Constantina Bakolitsa, Zhiqiang Hu, Gaia Andreoletti, Giulia Babbi, Yana Bromberg, Rita Casadio, Roland Dunbrack, Lukas Folkman, **Colby T. Ford**, David Jones, Panagiotis Katsonis, Kunal Kundu, Olivier Lichtarge, Pier L. Martelli, Sean D. Mooney, Conor Nodzak, Lipika R. Pal, Predrag Radivojac, Castrense Savojardo, Xinghua Shi, Yaoqi Zhou, Aneeta Uppal, Qifang Xu, Yizhou Yin, Vikas Pejaver, Meng Wang, Liping Wei, John Moult, Guoying Karen Yu, Steven E. Brenner, and Jonathan H. LeBowitz. Assessment of predicted enzymatic activity of α -N-acetylglucosaminidase variants of unknown significance for CAGI 2016. *Human Mutation*, 40(9):1519-1529, 2019
- J3. **Colby T. Ford**, Aneeta Uppal, Conor M. Nodzak, and Xinghua Shi. Prediction of the effect of naturally occurring missense mutations on cellular N-acetyl-glucosaminidase enzymatic activity. *bioRxiv*, 2019
- J2. Colby T. Ford. An integrated phylogeographic analysis of the Bantu migration. *ProQuest Dissertations and Theses*, page 120, 2018
- J1. Daniel Janies, **Colby Ford**, Lambodhar Damodaran, and Zachaey Faigen. Spread of Middle East Respiratory Coronavirus: Genetic versus epidemiological data. *Online Journal of Public Health Informatics*, 9(1), 2017

Conference Papers and Presentations

C7. Cheikh Cambel Dieng, **Colby T. Ford**, Dickson Doniou, Jennifer Huynh, Lerch Anita, Daniel Janies, Linda Amoah, Yaw Afrane, and Eugenia Lo. Population structure and selection-mediated changes in *Plasmodium falciparum* by next-generation sequencing. *Annual Meeting of the American Society of Tropical Medicine and Hygiene*, 2020

- C6. **Colby T. Ford**. Visualizing transmission networks of pathogens using phylogenetic data with StrainHub. *I Meeting of Systematics, Biogeography, and Evolution Symposium of Virology in the SARS-CoV-2 era*, 2020
- C5. Daniel Janies, **Colby T. Ford**, Kevin Smith, Gabriel Lopez Zenarosa, and John Williams. Evolution of gain and loss of antimicrobial resistance genes in *Escherichia coli*. XXXVIII Annual Meeting of the Willi Hennig Society, 2019
- C4. Kevin Smith, **Colby T. Ford**, Gabriel Lopez Zenarosa, John Williams, and Daniel Janies. Phylogenetic analysis of the genetic variation of multi-drug resistant *Escherichia coli*. *National Council on Undergraduate Research*, 2019
- C3. Jia Wen, **Colby T. Ford**, Daniel Janies, and Xinghua Shi. New strategies toward scaling up epistasis analysis on large-scale genomic datasets. *ACM Conference on Bioinformatics, Computational Biology, and Health Informatics*, 2018
- C2. **Colby T. Ford** and Andy Lathrop. Predictive modeling of vegetation density using R and a cloud data platform. *Analytics for Social Good, University of Cincinnati*, 2017
- C1. Colby T. Ford, Ming Xue, Peter M. Whiteley, Ward Wheeler, Daniel A. Janies, and Xinghua Shi. Visualizing linguistic disparity of Uto-Aztecan languages and Bantu languages. *Society for Anthropological Sciences Annual Meeting*, 2016

Software and Coding

- S3. Colby T. Ford. msgen R functions for interfacing with the Microsoft Genomics service in Azure, January 2021
- S2. Adriano de Bernardi Schneider, **Colby T. Ford**, Reilly Hostager, John Williams, Michael Cioce, Ümit V. Catalyürek, Joel O Wertheim, and Daniel Janies. StrainHub: A phylogenetic tool to construct pathogen transmission networks. *Bioinformatics*, 08 2019
- S1. Colby T. Ford, Jia Wen, Daniel Janies, and Xinghua Shi. A Parallelized Strategy for Epistasis Analysis Based on Empirical Bayesian Elastic Net Models. *Bioinformatics*, 03 2020. btaa216

Books and Chapters

- B2. Colby T. Ford. Bioinformatics in the Azure Cloud. Manning, Sep 2022. In Progress.
- E2. **Colby T. Ford** and Larry Baker. *Building a Genomics Data Lake in Azure*. BlueGranite, Jan 2021. URL: https://www.bluegranite.com/genomics-data-lake-ebook
- C1. Cheikh Cambel Dieng, Colby T. Ford, Jennifer Huynh, Linda E. Amoah, Yaw A. Afrane, Daniel A. Janies, and Eugenia Lo. Progress in *Plasmodium* genomics and current challenges in malaria control. In *Current Topics and Emerging Issues in Malaria Elimination*. IntechOpen, London, 2021. In Progress. ISBNs: 978-1-83968-484-5, 978-1-83968-483-8, DOI: 10.5772/intechopen.96530
- E1. **Colby T. Ford**. *Sparkitecture A collection of "cookbook-style" scripts for simplifying data engineering and machine learning in Apache Spark*. GitBook, October 2019
- B1. Colby Ford. Caesura late-intermediate piano technique book. Lulu, March 2010. ISBN: 978-0-557-36832-7

Other Professional Contributions

Technical Articles:

TA11. **Colby T. Ford**. Predicted Protein Interactions of the SARS-CoV-2 B.1.1.529 Variant with Neutralizing Antibodies, November 2021. Medium

TA10. **Colby T. Ford**. Protein Structure Prediction of the new B.1.1.529 SARS-CoV-2 Spike Variant with AlphaFold2, November 2021. Medium

TA9. Colby T. Ford. How Do We Fix Peer Review? (Because It's Broken...), October 2021. Medium

TA8. Colby T. Ford. I Asked GPT-3 to Write Some Chocolate Chip Cookie Recipes...and I Baked Them), June 2021. Medium

TA7. Colby T. Ford. What is a "variant" as it relates to COVID-19? (for non-geneticists), February 2021. Medium

TA6. **Colby T. Ford**. Automated Alignment and Variant Calling in Azure using the Microsoft Genomics service and the *msgen* R package, January 2021. Medium

TA5. Colby T. Ford. Better Evaluate COVID-19 Test Performance using Bayes Factors, December 2020. Medium

TA4. **Colby T. Ford**. Assessment of retail out-of-stock conditions using statistical inference. Technical report, Mariner, 2016

TA3. **Colby T. Ford** and Wayne Snyder. Revenue protection using machine learning for utilities management. Technical report, Mariner, 2015

TA2. **Colby T. Ford**. The allure of machine learning, now within reach in Microsoft Azure. Technical report, Mariner, 2015

TA1. Colby T. Ford. Demand forecasting using machine learning to reduce working capital. Technical report, Mariner, 2015

Professional Blog Posts:

B29. Colby T. Ford. Using Azure CycleCloud and Batch for Scalable HPC Workloads, 2021. BlueGranite Technical Blog

B28. **Colby T. Ford**. Microsoft AI: Look, Listen, Innovate! Hackfest - BlueGranite's Smart City Solution, 2021. *BlueGranite Technical Blog*

B27. **Colby T. Ford**. Query Millions of Genomic Variants in Minutes with Azure Synapse, 2021. *BlueGranite Technical Blog*

B26. **Colby T. Ford**. Review: How 3 Life Science Organizations Harness the Power of the Cloud, 2021. *BlueGranite Technical Blog*

B25. **Colby T. Ford**. Introducing BlueGranite's Azure Data Factory Connector for Illumina BaseSpace, 2021. *BlueGranite Technical Blog*

B24. **Colby T. Ford**. Event Recap: Shape your Future with Azure Data and Analytics, 2020. *BlueGranite Technical Blog*

B23. Colby T. Ford. Reading Bioinformatics and Genomics Files in Power BI, 2020. BlueGranite Technical Blog

B22. Jon Gore, Thomas J. Weinandy, and **Colby T. Ford**. Take Back Your Data to Gain a Competitive Advantage, 2020. *BlueGranite Technical Blog*

B21. Colby T. Ford. A BlueGranite Blog Post Written (Mostly) by AI, 2020. BlueGranite Technical Blog

B20. **Colby T. Ford**. Give Your Genomics Pipeline a *Glow* Up in Azure Databricks, 2020. *BlueGranite Technical Blog*

B19. Colby T. Ford. SIR Modeling on Azure: COVID-19 Hospital Impact Model for Epidemics, 2020. BlueGranite Technical Blog

- B18. Colby T. Ford. Let's Talk About COVID-19, 2020. BlueGranite Technical Blog
- B17. **Colby T. Ford**. Comparing Azure Machine Learning Service and Azure Databricks, 2020. *BlueGranite Technical Blog*
- B16. **Colby T. Ford**. Recap of rstudio::conf(2020) for Data Science and Machine Learning, 2020. *BlueGranite Technical Blog*
- B15. **Colby T. Ford**. Scaling your Genomics Pipeline in the Cloud with Azure Databricks, 2019. *BlueGranite Technical Blog*
- B14. **Colby T. Ford**. Migrating & Scaling Machine Learning Models to Azure Databricks for Cloud-Powered AI, 2019. *BlueGranite Technical Blog*
- B13. **Colby T. Ford**. Introducing the Databricks Unified Analytics Platform for Genomics, 2018. *BlueGranite Technical Blog*
- B12. Colby T. Ford. Recap: Spark+AI Summit 2018, 2018. BlueGranite Technical Blog
- B11. Colby T. Ford. Cognitive Services Showcase: API Search Tools, 2018. BlueGranite Technical Blog
- B10. Colby T. Ford. Let Azure do the Heavy Lifting on Your AI Workload, 2018. BlueGranite Technical Blog
- B9. Colby T. Ford. Recap of rstudio::conf 2018, 2018. BlueGranite Technical Blog
- B8. Colby T. Ford. Microsoft Azure & Databricks = Cloud-Scale Spark Power, 2017. BlueGranite Technical Blog
- B7. **Colby T. Ford**. Maximize Your Customer Retention by Predicting Customer Churn, 2017. *BlueGranite Technical Blog*
- B6. **Colby T. Ford**. Become the Maestro of your Genomics Workflow with Bioconductor and Microsoft R Server, 2017. *BlueGranite Technical Blog*
- B5. Colby T. Ford. Publishing Predictive Web Services with Microsoft R Server, 2017. BlueGranite Technical Blog
- B4. Colby T. Ford. Data Visualization for Bioinformatics with R in Power BI, 2017. BlueGranite Technical Blog
- B3. Colby T. Ford. Webinar Recap: Distributed Computing & R Server, 2017. BlueGranite Technical Blog
- B2. Colby T. Ford. SAS Enterprise Guide vs. Microsoft Azure Machine Learning, 2017. BlueGranite Technical Blog
- B1. Colby T. Ford. ImpoRting and ExpoRting: Getting Data Into and Out of R, 2017. BlueGranite Technical Blog

Journal Peer Review Activity

Jul. 2021 MDPI Mathematics Aug. 2021 MDPI Symmetry

Conferences, Training, Press, and Speaking Engagements

Nov. 2014	Microsoft Roadmap Event	Speaker	Charlotte, NC
Sep. 2015	Microsoft Cortana Analytics Conference	Attendee	Seattle, WA
Sep. 2015	Advanced Pharma Analytics	Attendee	Newark, NJ
Feb. 2017	Analytics for Social Good - U. Cincinnati	Speaker	Cincinnati, OH
Mar. 2017	Society for Applied Anthropology Conference	Speaker	Santa Fe, NM
Mar. 2017	BlueGranite Distributed Computing Webinar	Speaker	Online
Oct. 2017	BlueGranite Retail Webinar	Speaker	Online
Nov. 2017	Nissan Analytics Expo	Speaker	Nashville, TN
Jan. 2018	rstudio::conf(2018)	Attendee	San Diego, CA
Jun. 2018	Spark + AI Summit 2018	Attendee	San Francisco, CA
•	•	Speaker	Grand Rapids, MI
Sep. 2018	Big Data Ignite	Attendee	-
Sep. 2018	Microsoft Ignite rstudio::conf(2019)	Attendee Attendee	Orlando, FL
Jan. 2019	· · · · · · · · · · · · · · · · · · ·	Attendee Attendee	Austin, TX New York, NY
Mar. 2019	Microsoft Azure AI Hackfest		
Apr. 2019	Azure Databricks Training Event	Speaker	Chicago, IL
May 2019	CECHS Commencement	Speaker	Lenoir, NC
Jun. 2019	BlueGranite Azure Databricks Retail Webinar	Speaker	Online
Jun. 2019	Azure Databricks Training Event	Speaker	Charlotte, NC
Jun. 2019	Azure Databricks Training Event	Speaker	Detroit, MI
Jul. 2019	Databricks Retail Webinar	Speaker	Online
Oct. 2019	UNCC CCI Ph.D. Open House Panel	Panelist	Charlotte, NC
Nov. 2019	UNCC Data Science Initiative Git Workshop	Speaker	Charlotte, NC
Jan. 2020	PyData Charlotte	Speaker	Charlotte, NC
Jan. 2020	rstudio::conf(2020)	Attendee	San Francisco, CA
Apr. 2020	WBTV COVID-19 Interview	Interviewee	Online
May 2020	CBS News COVID-19 Interview	Interviewee	Online
May 2020	UCSD HIV Dynamics Conference	Speaker	Online
Jun. 2020	Spark + AI Summit 2020	Speaker/Panelist	Online
Jul. 2020	SBE Symposium: Virology in the SARS-CoV-2 era	Speaker	Online
Aug. 2020	BlueGranite Scaling Genomic Analyses in Azure Webinar	Speaker	Online
Sep. 2020	TEDxUNCCharlotte	Speaker	Charlotte, NC
Oct. 2020	BlueGranite Loan Risk Analysis Webinar	Speaker	Online
Jan. 2021	BlueGranite AI-in-a-Day Training Event	Speaker	Online
Jan. 2021	rstudio::global(2021)	Attendee	Online
Jan. 2021	Lenoir NewsTopic Interview	Interviewee	Online
Mar. 2021	Microsoft AI: Look, Listen, Innovate! Solution Hackathon	Participant	Online
May 2021	DockerCon Live! 2021	Attendee	Online
May 2021	Data + AI Summit 2021	Attendee	Online
Jul. 2021	Microsoft Ignite 2021	Attendee	Online
Jul. 2021	Alzheimer's Association International Conference 2021	Attendee	Denver, CO
Oct. 2021	Microsoft Research Summit	Attendee	Online
Nov. 2021	Microsoft Ignite	Attendee	Online
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Skills

Languages: $R \bullet Python \bullet SQL \bullet Javascript \bullet SAS \bullet Visual Basic$ High Performance Computing: Spark (Databricks) \bullet CUDA \bullet Hadoop \bullet MPI \bullet SNOW

Cloud Computing: Microsoft Azure • AWS • Docker/Kubernetes

Visualization: Tableau • Power BI • Shiny • D3.js Markup/Web: Markdown • L⁴TEX• HTML5 • CSS3

Bioinformatics: Phylogenetics • Haplotyping • Protein Modeling • Epistasis

Professional Memberships

2013-Present	The Society for Industrial and Applied Mathematics
2014-Present	The American Statistical Association
2015-2017	UNCC Data Science Initiative Advisory Board
2015-2016	Northeastern University LEVEL Advisory Board
2016-2017	The Society for Anthropological Sciences
2018-2019	American Association for the Advancement of Science
2020-Present	International Society for Computational Biology
2021-Present	International Society for Infectious Diseases
2021-Present	International Society to Advance Alzheimer's Research and Treatment

Student Advising

Jan. 2019 - May 2019	Jainmary Jose	Cloud Computing Teaching Assistant
Aug. 2019 - Dec. 2019	Anjali Khushalani	Cloud Computing Teaching Assistant
Jan. 2020 - May 2020	Kovidh Vegesna	DSBA MS Practicum Intern
May 2020 - Sep. 2020	Somesh Kale	Amissa Developer Intern
May 2020 - Sep. 2020	Heet Detroja	Amissa Developer Intern
May 2020 - Sep. 2020	Chaitanya Darade	Amissa Developer Intern
Sep. 2020 - May. 2021	Adesoji Ademiluyi	Bioinformatics Research Assistant
Sep. 2020 - Oct. 2021	Eh So Wah	Amissa Developer Intern

Certifications

Technical Certifications

May 2018	Databricks Certified Developer - Apache Spark 2.x for Python	Certification #: 53873
Nov. 2019	Microsoft Azure Data Scientist Associate (DP-100)	Exam Writer
Sep. 2020	Microsoft Data Science Partnership Program	Custom Core Certification
Oct. 2020	Microsoft Azure AI Engineer Associate (AI-100)	Certification #: H532-5207
Oct. 2020	Microsoft Azure AI Fundamentals (AI-900)	Certification #: H533-2414
Nov. 2020	Databricks Partner Program - Developer Champion	Certification #: 917207
Feb. 2021	Microsoft Certified Trainer	Certification #: 17875868

Research Certifications

Dec. 2019	CITI Program - Biomedical Researcher (IRB)	Record ID: 34535340
Dec. 2019	CITI Program - Data or Specimens Only Research (IRB)	Record ID: 34853732
Nov. 2020	CITI Program - Animal Biosafety	Record ID: 39539397
Nov. 2020	CITI Program - Laboratory Personnel BSS	Record ID: 39539395
Nov. 2020	CITI Program - USDA Permits	Record ID: 39539400
Nov. 2020	CITI Program - Shipping and Transport of Regulated Biological Materials	Record ID: 39539399
Nov. 2020	CITI Program - Principal Investigators BSS	Record ID: 39539394
Nov. 2020	CITI Program - Institutional Biosafety Committee (IBC) Members BSS	Record ID: 39539396
Jan. 2021	CITI Program - Social & Behavioral Research (IRB)	Record ID: 40316365
Jun. 2021	CITI Program - Good Clinical Practices (GCP)	Record ID: 43096988

Funding

Aug. 2021 - Jan. 2022	NIH NIA SBIR	A Multifaceted Digital Health Application to Advance Alzheimer's Disease Patient Monitoring, Safety, Caregiving, and Research	\$495,787	Funded 1R43AG072981-01A1	Co-I
Apr. 2021 - Sep. 2022	NSF Innovation Corps	Investigating the Utility of Digital Biomarkers with Wearable Devices and Artificial Intelligence in Alzheimer's Disease and other Neurological Disorders	\$50,000	Funded 2127407	PI/TL
May 2020 - Dec. 2020	UNCC SDS Seed Grant	Analytical Modeling of IoMT data to predict onset and progression of Alzheimer's	\$20,000	Funded	Co-PI
Jan. 2019 - May 2019	Microsoft	Azure Funding for Cloud Computing Course	\$30,000	Funded	PI
Oct. 2014 - Present	Microsoft	Various Business Incentive Funds (BIF), Partner Investment Engine (PIE) Funds, GoFast Funding, and End Customer Investment Funds (ECIF).	>\$750,000	Funded	PI

Last updated: November 29, 2021 www.colbyford.com