

# Colby T. Ford, Ph.D.

*Cloud Data, AI, & Genomics Architect,  
Computational Biologist, Data Scientist*

Phone: (828) 773-8009  
Academic Email: colby.ford@charlotte.edu  
Consulting Email: colby@tuple.xyz  
Location: Charlotte, NC  
Website: colbyford.com

LinkedIn: colbyford  
GitHub: colbyford  
ORCID: 0000-0002-7859-3622  
Google Scholar: zetDB4EAAAAJ  
Google Presence: Colby+T.+Ford  
NPPES NPI: 1255002408  
Microsoft MVP: 5005240

## Education

### *The University of North Carolina at Charlotte*

- 2018 Doctor of Philosophy in Bioinformatics and Computational Biology  
*Advisor: Daniel Janies, Ph.D.*  
*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

### *Tuple (a Microsoft Partner)*

Founded the only Microsoft and Databricks partner firm specializing in scalable cloud -omics solutions. Tuple provides data architecture and research consulting services in Azure, focusing on cloud AI in the life sciences. Co-wrote the Azure Data Scientist Microsoft Certified Solution Associate exam (DP-100) and the MS Learn Azure Data Scientist exam. Created the azbasespace connector for Illumina BaseSpace to Azure and the ahab system for -omics in Kubernetes. Microsoft Partner-of-the-Year nominee for 2023.

August 2019 - Present Owner & Principal Consultant

### *Pfizer*

Established a scalable cloud computing architecture on Azure to support the Translational Sciences group in the discovery of therapeutic targets for antibody development in oncology. This includes an automated, Kubernetes-based workflow for scalable RNA-seq, WES, protein docking, and pharmacodynamics pipelines along with a supporting GxP-qualified data platform, data lake, and machine learning architecture. Collaborated with pre-clinical and clinical teams to design scalable, cloud-based protein structural analyses for antibody candidates against tumor targets. Productionalized large drug sensitivity ML models using gene expression data.

December 2023 - May 2024	Mgr. ML & Cloud Engineering, Bioinformatics, Pfizer Oncology
September 2021 - December 2023	Mgr. ML & Cloud Engineering, Bioinformatics, Seagen
March 2021 - September 2021	Sr. Scientist, Bioinformatics, Seagen

*Amissa Health*

Co-founded Amissa Inc., a digital health company that uses cloud-based AI and analytics through consumer wearable devices in the fight against Alzheimer's disease and other conditions. Designed and built the *Sinuo* cloud platform, which applies state-of-the-art artificial intelligence techniques to sensory data, biomarkers, and additional patient metrics. Amissa's work was funded by the NIH National Institute on Aging SBIR program (>\$3.5M) and the NSF I-Corps program.

March 2020 - October 2024    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, 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 consulting practice, building scalable solutions for bioinformatics analyses in Azure. (Acquired by 3Cloud, LLC.)

May 2020 - October 2021	Principal Architect, Life Sciences
December 2020 - May 2020	Genomics Practice Lead
December 2020 - May 2020	AI Practice Lead (Interim)
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 dermatologic conditions. (NASDAQ IPO: SKIN, now called Beauty Health Co.)

July 2019 - March 2020    Director of Data Science, Disruptive Labs

*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. (IP Acquired by Barrick Gold Corp.)

August 2018 - March 2020    Chief Data Scientist

*Cencora (formerly AmerisourceBergen)*

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, Lash Group

*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, Consultant

*Caldwell Hospice and Palliative Care*

Pioneered the transition from hand-written, paper medical forms to electronic data input and served as a database administrator. Worked closely with HIPAA and Medicare/Medicaid guidelines for data compliance.

August 2008 - December 2011    Medical Records Database Administrator

**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.

September 2023 - Present	Visiting Scholar	CIPHER Research Center
January 2019 - Present	Associate Faculty	School of Data Science
July 2021 - October 2024	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
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	Assistant Mathematics Instructor	Caldwell Early College

## Publications

### Peer-Reviewed Journal Articles

- J26. Arianna Comendul, Frederique Ruf-Zamojski, **Colby T. Ford**, Pankaj Agarwal, Elena Zaslavsky, German Nudelman, Manoj Hariharan, Aliza Rubenstein, Hanna Pincas, Venugopalan D. Nair, Adam M. Michaleas, Philip D. Fremont-Smith, Darrell O. Ricke, Stuart C. Sealfon, Christopher W. Woods, Kajal T. Claypool, and Rafael Jaimes. Comprehensive guide for epigenetics and transcriptomics data quality control. *STAR Protocols*, 6(1):103607, 2025
- J25. **Colby T. Ford**, Jake A. Galler, Yingnan He, Cathrine Young, Beata Gabriela K. Simpson, Chao-Yi Wu, Jake Pfaffenroth, Eh So Wah, Steven E. Arnold, Hiroko H. Dodge, Jon A. Corkey, and Sudeshna Das. Using Apple Watches to Monitor Health and Behaviors of Individuals with Cognitive Impairment: A Case Series Study. *The Journals of Gerontology: Series A*, 10 2024
- J24. **Colby T. Ford**. PD-1 Targeted Antibody Discovery Using AI Protein Diffusion. *Technology in Cancer Research & Treatment*, 23, 2024
- J23. Shirish Yasa, Sayal Guirales-Medrano, Denis Jacob Machado, **Colby T. Ford**, and Daniel A. Janies. Predicting Antibody and ACE2 Affinity for SARS-CoV-2 BA.2.86 and JN.1 with *In Silico* Protein Modeling and Docking. *Frontiers in Virology*, 4, 2024
- J22. **Colby T. Ford**, Phillip J. Tomezsko, Avery E. Meyer, Adam M. Michaleas, and Rafael Jaimes III. Human Cytokine and Coronavirus Nucleocapsid Protein Interactivity Using Large-Scale Virtual Screens. *Frontiers in Bioinformatics*, 4, 2024
- J21. Nicholas J. Santistevan, **Colby T. Ford**, Cole S. Gilsdorf, and Yevgenya Grinblat. Behavioral and transcriptomic analyses of *mecp2* function in zebrafish. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*, e32981, 2024
- J20. Tara N. McCray, Vy Nguyen, Jake S. Heins, Elizabeth Ngyuen, Kristen Stewart, **Colby T. Ford**, Calvin Neace Neace, Priyanka Gupta, and David J. Ortiz. Bronchioalveolar organoids: A preclinical tool to screen toxicity associated with antibody-drug conjugates. *Toxicology and Applied Pharmacology*, 485:116886, 2024
- J19. The Critical Assessment of Genome Interpretation Consortium. CAGI, the Critical Assessment of Genome Interpretation, establishes progress and prospects for computational genetic variant interpretation methods. *Genome Biology*, 25(1):53, Feb 2024
- J18. Hsin Lee, Kwen-Shen Lee, Chia-Hsin Hsu, Chen-Wei Lee, Ching-En Li, Jia-Kang Wang, Chien-Chia Tseng, Wei-Jen Chen, Ching-Chang Horng, **Colby T. Ford**, Andreas Kroh, Omri Bronstein, Hayate Tanaka, Tatsuo Oji, Jih-Pai Lin, and Daniel Janies. Reply to: Embracing the taxonomic and topological stability of phylogenomics. *Scientific Reports*, 14(1):4094, Feb 2024
- J17. Daniel Kepple, **Colby T. Ford**, Jonathan Williams, Beka Abagero, Shaoyu Li, Jean Popovici, Delenasaw Yewhallow, and Eugenia Lo. Comparative transcriptomics reveal differential gene expression among *Plasmodium vivax* geographical isolates and implications on erythrocyte invasion mechanisms. *PLOS Neglected Tropical Diseases*, 18(1):1–21, 01 2024
- J16. Cristian M. Galván-Villa, Francisco A. Solís-Marín, Karen Lopez, Janessa Cobb, Leopoldo Díaz-Pérez, Carlos R. Rezende-Ventura, Nataly Slivak, **Colby T. Ford**, and Daniel A. Janies. Occurrence of the Indo-West Pacific starfish *Luidia magnifica* (Echinodermata: Asteroidea) in the Mexican Pacific and a possible introduction to the Caribbean region. *Marine Biodiversity*, 54(1):1, Dec 2023
- J15. Hsin Lee, Kwen-Shen Lee, Chia-Hsin Hsu, Chen-Wei Lee, Ching-En Li, Jia-Kang Wang, Chien-Chia Tseng, Wei-Jen Chen, Ching-Chang Horng, **Colby T. Ford**, Andreas Kroh, Omri Bronstein, Hayate Tanaka, Tatsuo Oji, Jih-Pai Lin, and Daniel Janies. Phylogeny, ancestral ranges and reclassification of sand dollars. *Scientific Reports*, 13(1):10199, Jun 2023

- J14. **Colby T. Ford**, Shirish Yasa, Denis Jacob Machado, Richard Allen White III, and Daniel A. Janies. Predicting changes in neutralizing antibody activity for SARS-CoV-2 XBB.1.5 using *in silico* protein modeling. *Frontiers in Virology*, 3, 2023
- J13. **Colby T. Ford**, Cheikh Cambel Dieng, Anita Lerch, Dickson Doniou, Kovidh Vegesna, Daniel Janies, Liwang Cui, Linda Amoah, Yaw Afrane, and Eugenia Lo. Genetic variations of *Plasmodium falciparum* circumsporozoite protein and the impact on interactions with human immunoproteins and malaria vaccine efficacy. *Infection, Genetics and Evolution*, 110:105418, 2023
- J12. 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. Nationwide surveillance of Pfhrp2 exon 2 diversity in *Plasmodium falciparum* circulating in symptomatic malaria patients living in Ghana. *American Journal of Tropical Medicine and Hygiene.*, 2022
- J11. **Colby T. Ford**, Denis Jacob Machado, and Daniel A Janies. Predictions of the SARS-CoV-2 Omicron Variant (B.1.1.529) Spike Protein Receptor-Binding Domain Structure and Neutralizing Antibody Interactions. *Frontiers in Virology*, 2, 2022
- J10. Anthony Ford, Daniel Kepple, Jonathan Williams, Gabrielle Kolesar, **Colby T. Ford**, Abnet Abebe, Lemu Golassa, Daniel A. Janies, Delenasaw Yewhalaw, and Eugenia Lo. Gene Polymorphisms Among *Plasmodium vivax* Geographical Isolates and the Potential as New Biomarkers for Gametocyte Detection. *Frontiers in Cellular and Infection Microbiology*, 11, 2022
- J9. **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
- J8. 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
- J7. **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
- J6. **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
- J5. **Colby T. Ford** and Daniel Janies. Ensemble machine learning modeling for the prediction of artemisinin resistance in malaria. *F1000Research*, 9(62), 2020
- J4. 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
- J3. 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 Moulton, Guoying Karen Yu, Steven E. Brenner, and Jonathan H. LeBowitz. Assessment of predicted enzymatic activity of  $\alpha$ -N-acetylglucosaminidase variants of unknown significance for CAGI 2016. *Human Mutation*, 40(9):1519–1529, 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 Zacharey Faigen. Spread of Middle East Respiratory Coronavirus: Genetic versus Epidemiological Data. *Online Journal of Public Health Informatics*, 9(1), 2017

## Preprints

- P3. **Colby T. Ford**, Shirish Yasa, Khaled Obeid, Sayal Guirales-Medrano, Richard Allen White, and Daniel Janies. Large-Scale Computational Modeling of H5 Influenza Variants Against HA1-Neutralizing Antibodies. *bioRxiv*, 2024
- P2. **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
- P1. **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

## Conference Papers and Presentations

- C12. **Colby T. Ford** and Daniel Janies. Rapid and Flexible Development of Medical Countermeasures with Computational Structural Biology and Artificial Intelligence. *DTRA Chemical and Biological Defense Science & Technology Conference*, 2024
- C11. **Colby T. Ford**. Lessons in Scalability: Cloud and HPC-Driven Computational Biology. *MITLL Biotechnology & Human Systems Seminar*, 2024
- C10. **Colby T. Ford**, Eh So Wah, Jake Pfaffenroth, Fidel Henriquez, and Jon Corkey. Scaling Digital Biomarker Discovery with the Cloud and Wearable Devices. *Alzheimer's & Dementia*, 19(S18):e078069, 2023
- C9. Kira Chiles, Candace S. Brown, and **Colby T. Ford**. The effects of exercise during a pandemic. *UNC Charlotte Undergraduate Research Conference*, 2023
- C8. Adriano de Bernardi Schneider, **Colby T. Ford**, Jakob McBroome<sup>1</sup>, Jennifer Martin, Daniel Janies, Yatish Turakhia, and Russel Corbett-Detig. Understanding the spread of SARS-CoV-2 clusters through an integrated pipeline using USHER, Cluster Tracker and StrainHub. *Genetics Society of America - Population, Evolutionary, and Quantitative Genetics Conference*, 2022
- 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

- S5. **Colby T. Ford.** *PyMOLfold* - Plugin for folding sequences directly in PyMOL using various models., December 2024
- S4. **Colby T. Ford.** *ahab-lib* - Python library and CLI for interacting with the *ahab* cloud API and Kubernetes system, April 2024
- S3. **Colby T. Ford.** *mngen* - 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.** *Genomics in the Azure Cloud*. O'Reilly Media, Dec 2022. ISBN: 978-1-098-13904-9
- E2. **Colby T. Ford** and Larry Baker. *Building a Genomics Data Lake in Azure*. BlueGranite, Jan 2021. URL: <https://zenodo.org/record/4474520>, DOI: 10.5281/zenodo.4474520
- 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. 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

## Technical Articles

- TA43. **Colby T. Ford.** 4 Ways to Run Your Own DeepSeek AI Instance Today, January 2025. Medium
- TA42. **Colby T. Ford.** Exploring the Azure Cloud's Free Service Offerings, January 2025. Medium
- TA41. **Colby T. Ford.** Running AlphaFold3 At-Scale on High Performance Computing Clusters, December 2024. Medium
- TA40. **Colby T. Ford.** Microsoft Ignite 2024: Top Announcements for Life Science Workloads, November 2024. Medium
- TA39. **Colby T. Ford.** Quick Note: Health and Life Science Models are now in Azure AI Studio, October 2024. Medium
- TA38. **Colby T. Ford.** Easily Scaling Container Workloads using Automatic Clusters in Azure Kubernetes Service, September 2024. Medium
- TA37. **Colby T. Ford.** Building a Custom AI Chatbot with Azure AI Studio, August 2024. Medium
- TA36. **Colby T. Ford.** Deploy Protein Language Models using Ollama, July 2024. Medium
- TA35. **Colby T. Ford.** Building GPU-Enabled Clusters in Azure Kubernetes Service, June 2024. Medium
- TA34. **Colby T. Ford.** Microsoft Build 2024: 4 Hot New AI Announcements!, May 2024. Medium

- TA33. **Colby T. Ford.** Tips for Succeeding in the Microsoft for Startups Founders Hub Program, April 2024. Medium
- TA32. **Colby T. Ford.** Simple Syncing Between Azure Data Lake and Synology NAS, February 2024. Medium
- TA31. **Colby T. Ford.** Transfer Sequencing Data from Lab Vendors using sFTP and Azure Synapse Pipelines, January 2024. Medium
- TA30. **Colby T. Ford.** 2023: A Biotech Year-End Review, December 2023. Medium
- TA29. **Colby T. Ford.** 5 Exciting Azure Announcements from Microsoft Ignite 2023, November 2023. Medium
- TA28. **Colby T. Ford.** Exploring AI-Based Protein Sequence Generation with EvoDiff from Microsoft Research, October 2023. Medium
- TA27. **Colby T. Ford.** GPT on my Genome: Building a QnA System for Genomic Variants with Azure OpenAI, September 2023. Medium
- TA26. **Colby T. Ford.** 4 Tips for Qualifying your Azure Data Lake for GxP use in the Life Sciences, August 2023. Medium
- TA25. **Colby T. Ford.** Predicting the molecular interactions of lecanemab, the new FDA-approved monoclonal antibody for Alzheimer's disease., July 2023. Medium
- TA24. **Colby T. Ford.** The Future of Manufacturing is Bio: Things I Learned in the Millyard., June 2023. Medium
- TA23. **Colby T. Ford.** How Azure OneLake will revolutionize the way we manage and use -omics data, May 2023. Medium
- TA23. **Colby T. Ford.** Deploying Databricks Dolly as an API on Azure Functions, April 2023. Medium
- TA22. **Colby T. Ford.** Deploying Azure OpenAI and Building a Custom Science Article Recommender App with ChatGPT, March 2023. Medium
- TA21. **Colby T. Ford.** What does ChatGPT think about using the Azure cloud for genomics?, January 2023. Medium
- TA20. **Colby T. Ford.** 5 Quick Things You Didn't Know About the Microsoft Cloud for Healthcare, November 2022. Medium
- TA19. **Colby T. Ford.** How to Deploy Shiny Apps in Azure and use your Domain Name, October 2022. Medium
- TA18. **Colby T. Ford.** Using Microsoft Dev Box and Azure Compute Galleries for Bioinformatics, August 2022. Medium
- TA17. **Colby T. Ford.** A Deep Dive Look Into Global Monkeypox Transmissions - from January to July 2022., July 2022. Medium
- TA16. **Colby T. Ford.** Deploying Azure Databricks with a Virtual Network and Network Security Group, July 2022. Medium
- TA15. **Colby T. Ford.** Quick Note: What's up with the new SARS-CoV-2 BA.2.75 and BA.5 variants?, July 2022. Medium
- TA14. **Colby T. Ford.** Am I Hallucinating or Can AI Now Design Cancer-Curing Antibodies?, June 2022. Medium
- TA13. **Colby T. Ford.** Scaling Genomics in the Cloud with Microsoft Azure, May 2022. Medium
- TA12. **Colby T. Ford.** How to predict many protein structures with AlphaFold2 at-scale in Azure Machine Learning, January 2022. Medium
- 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 and Case Studies*

- B31. **Colby T. Ford**. Supporting the Fight Against Cancer, Tuple Unveils Anti-PD-1 Antibodies Fully Designed by AI, 2024. *Tuple Case Study*
- B31. **Colby T. Ford**. MIT Lincoln Lab and Tuple Achieve Immense Scalability in SARS-CoV-2 Molecular Modeling with High-Performance Computing, 2023. *Tuple Case Study*
- B30. **Colby T. Ford**. Case Study: Scaling Rare Disease Research in the Azure Cloud, 2022. *Tuple Case Study*
- 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*

## Conferences, Training, Press, and Speaking Engagements

Mar. 2025	Techstars - Startup Weekend AI & Life Sciences	Panelist	Wins. Salem, NC
Jan. 2025	Microsoft AI Tour - Azure Application Platform	Speaker	New York, NY
Jan. 2025	Microsoft Empire State of AI Event	Attendee	New York, NY
Dec. 2024	DTRA Chemical and Biological Defense Science & Tech Conf.	Presenter	Ft. Lauder., FL
Nov. 2024	Microsoft Ignite	Host	Chicago, IL
Nov. 2024	UNCC Center for Humane AI Studies Seminar	Speaker	Charlotte, NC
Oct. 2024	UNCC DSBA 6211 Guest Lecture	Speaker	Charlotte, NC
Oct. 2024	8th Int. Conf. on Drug Discovery	Speaker	Boston, MA
Oct. 2024	MITLL Biotechnology & Human Systems Seminar	Speaker	Boston, MA
Sep. 2024	UNCC Biomedical Sciences Symposium	Speaker	Charlotte, NC
Aug. 2024	posit::conf(2024)	Attendee	Seattle, WA
Jul. 2024	AAIC 2024 Panel on LLMs in Dementia Care	Host/Speaker	Philadelphia, PA
May 2024	Nextflow Summit 2024	Speaker	Boston, MA
May 2024	Microsoft Build	Attendee	Online
May 2024	NIH Clinical and Translational Serology Task Force Meeting	Speaker	Online
May 2024	London Biotechnology Show	Speaker	London, UK
Mar. 2024	Leaders of B2B Podcast - Episode 212	Interviewee	Online
Mar. 2024	Microsoft MVP Global Summit	Awardee	Redmond, WA
Mar. 2024	Alz. Assoc. AI in Dementia Care Webinar	Panelist	Online
Feb. 2024	UNCC DSBA 3000 Lecture on Git	Instructor	Charlotte, NC
Jan. 2024	Microsoft AI Tour - Machine Learning Studio	Speaker	New York, NY
Nov. 2023	Microsoft Ignite	Attendee	Redmond, WA
Oct. 2023	UNCC Seminar: Getting Started with Git	Instructor	Charlotte, NC
Sep. 2023	posit::conf(2023)	Speaker	Chicago, IL
Jul. 2023	Alzheimer's Association International Conference 2023	Presenter	Amsterdam, NL
Jun. 2023	ARMI National Conference on the Future of Biofabrication	Speaker	Manchester, NH
Jun. 2023	MITLL Biotechnology and Resilient Human Systems Workshop	Attendee	Boston, MA
Jun. 2023	Data + AI Summit 2023	Attendee	San Francisco, CA
Apr. 2023	Microsoft MVP Global Summit	Awardee	Redmond, WA
Jan. 2023	NC HIMSS Event	Participant	Charlotte, NC
Nov. 2022	Microsoft Cloud for Healthcare Event (TTT)	Participant	Seattle, WA
Oct. 2022	UNCC Seminar: Getting Started with Git	Instructor	Charlotte, NC
Jul. 2022	Alzheimer's Association International Conference 2022	Panelist	San Diego, CA
Jul. 2022	rstudio::conf(2022)	Attendee	Washington DC
Jul. 2022	Microsoft Inspire	Attendee	Online
Feb. 2022	United Nations ITU AI for Good Programme	Speaker	Online
Jan. 2022	WIRED Interview on Omicron Modeling	Interviewee	Online
Dec. 2021	The Economist Interview on Omicron Modeling	Interviewee	Online
Nov. 2021	Microsoft Ignite	Attendee	Online
Oct. 2021	Microsoft Research Summit	Attendee	Online
Jul. 2021	Alzheimer's Association International Conference 2021	Attendee	Denver, CO
Jul. 2021	Microsoft Ignite 2021	Attendee	Online
May 2021	Data + AI Summit 2021	Attendee	Online
Mar. 2021	Microsoft AI: Look, Listen, Innovate! Solution Hackathon	Participant	Online
Jan. 2021	Lenoir NewsTopic Interview	Interviewee	Online
Jan. 2021	rstudio::global(2021)	Attendee	Online
Jan. 2021	BlueGranite AI-in-a-Day Training Event	Speaker	Online
Oct. 2020	BlueGranite Loan Risk Analysis Webinar	Speaker	Online
Sep. 2020	TEDxUNCCharlotte	Speaker	Charlotte, NC
Aug 2020	BlueGranite Scaling Genomic Analyses in Azure Webinar	Speaker	Online
Jul. 2020	SBE Symposium: Virology in the SARS-CoV-2 era	Speaker	Online
Jun. 2020	Spark + AI Summit 2020	Speaker/Panelist	Online
May 2020	UCSD HIV Dynamics Conference	Speaker	Online

May 2020	CBS News COVID-19 Interview	<i>Interviewee</i>	Online
Apr. 2020	WBTV COVID-19 Interview	<i>Interviewee</i>	Online
Jan. 2020	rstudio::conf(2020)	<i>Attendee</i>	San Francisco, CA
Jan. 2020	PyData Charlotte	<i>Speaker</i>	Charlotte, NC
Nov. 2019	UNCC Data Science Initiative Git Workshop	<i>Speaker</i>	Charlotte, NC
Oct. 2019	UNCC CCI Ph.D. Open House Panel	<i>Panelist</i>	Charlotte, NC
Jul. 2019	Databricks Retail Webinar	<i>Speaker</i>	Online
Jun. 2019	Azure Databricks Training Event	<i>Speaker</i>	Detroit, MI
Jun. 2019	Azure Databricks Training Event	<i>Speaker</i>	Charlotte, NC
Jun. 2019	BlueGranite Azure Databricks Retail Webinar	<i>Speaker</i>	Online
May 2019	CECHS Commencement	<i>Speaker</i>	Lenoir, NC
Apr. 2019	Azure Databricks Training Event	<i>Speaker</i>	Chicago, IL
Mar. 2019	Microsoft Azure AI Hackfest	<i>Attendee</i>	New York, NY
Jan. 2019	rstudio::conf(2019)	<i>Attendee</i>	Austin, TX
Sep. 2018	Microsoft Ignite	<i>Attendee</i>	Orlando, FL
Sep. 2018	Big Data Ignite	<i>Speaker</i>	Grand Rapids, MI
Jun. 2018	Spark + AI Summit 2018	<i>Attendee</i>	San Francisco, CA
Jan. 2018	rstudio::conf(2018)	<i>Attendee</i>	San Diego, CA
Nov. 2017	Nissan Analytics Expo	<i>Speaker</i>	Nashville, TN
Oct. 2017	BlueGranite Retail Webinar	<i>Speaker</i>	Online
Mar. 2017	BlueGranite Distributed Computing Webinar	<i>Speaker</i>	Online
Mar. 2017	Society for Applied Anthropology Conference	<i>Speaker</i>	Santa Fe, NM
Feb. 2017	Analytics for Social Good - U. Cincinnati	<i>Speaker</i>	Cincinnati, OH
Sep. 2016	Advanced Pharma Analytics	<i>Attendee</i>	Newark, NJ
Sep. 2015	Microsoft Cortana Analytics Conference	<i>Attendee</i>	Seattle, WA
Nov. 2014	Microsoft Roadmap Event	<i>Speaker</i>	Charlotte, NC

## Skills

Languages:	Python • R • SQL • Javascript • SAS • Visual Basic
High Performance Computing:	Spark (Databricks) • Kubernetes • CUDA • Slurm • MPI
Cloud Computing:	Microsoft Azure • AWS • Docker • Terraform • Bicep / ARM
Visualization:	Tableau • Power BI • Shiny • ggplot2 • D3.js
Markup/Web:	Markdown • $\text{\LaTeX}$ • HTML5 • CSS3
Bioinformatics:	RNA-seq • scRNA-seq • WES/WGS • Phylogenetics • Haplotyping
Computational Biology:	Protein Design • Antibody-Antigen Docking • Drug Sensitivity Modeling

## Professional Memberships

### *Societies*

2013-Present	The Society for Industrial and Applied Mathematics
2014-Present	The American Statistical Association
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
2021-2025	International Society to Advance Alzheimer's Research and Treatment

### *Boards*

2015-2017	UNCC Data Science Initiative Advisory Board
2015-2016	Northeastern University LEVEL Advisory Board
2022-2023	American Cancer Society - Associate Board of Advisors

## Student Advising

Jan. 2019 - May 2019	Jainmary Jose	Cloud Computing Teaching Assistant	UNCC
Aug. 2019 - Dec. 2019	Anjali Khushalani	Cloud Computing Teaching Assistant	UNCC
Jan. 2020 - May 2020	Kovidh Vegesna	Data Science Practicum Intern	UNCC
May 2020 - Sep. 2020	Somesh Kale	Developer Intern	Amissa
May 2020 - Sep. 2020	Heet Detroja	Developer Intern	Amissa
May 2020 - Sep. 2020	Chaitanya Darade	Developer Intern	Amissa
Sep. 2020 - May 2021	Adesoji Ademiluyi	Bioinformatics Research Assistant	UNCC
Sep. 2020 - Oct. 2021	Eh So Wah	Developer Intern	Amissa
Jan. 2022 - May 2022	Paige Oldiges	Cloud Computing Teaching Assistant	UNCC
Jun. 2022 - Sep. 2022	Carter DeMordaunt	Bioinformatics Intern	Tuple
Jan. 2023 - May 2023	Utwej Sai Nalluri	Cloud Computing Teaching Assistant	UNCC
Aug. 2024 - Dec. 2024	Alexander Palmer	Cloud Computing Teaching Assistant	UNCC
Jan. 2025 - May 2025	Nicholas Santolla	Data Science Practicum Intern	UNCC
May. 2025 - Oct. 2025	TBD	Bioinformatics/AI Intern	Tuple

## Awards

Apr. 2022	40 under 40	Charlotte Business Journal
Apr. 2022	Impact Award	Seagen, Inc.
Mar. 2023	Alumnus of the Year	UNC Charlotte
Apr. 2023	Most Valuable Professional (MVP), Azure	Microsoft
Jun. 2023	Impact Award	Seagen, Inc.
Feb. 2024	The Fire Award Honoree (Amissa)	CharlotteInno
Jul. 2024	Most Valuable Professional (MVP), Azure + AI	Microsoft
Jul. 2024	Nextflow Ambassador	Seqera

## 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
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
Jun. 2021	CITI Program - Good Clinical Practices (GCP)	Record ID: 43096988
Feb. 2023	CITI Program - Biomedical Sciences: Responsible Conduct of Research	Record ID: 54594415
Feb. 2023	CITI Program - Biomedical Investigators and Research Study Team	Record ID: 54601364
Nov. 2024	CITI Program - Social & Behavioral Research (IRB)	Record ID: 65751859
Dec. 2024	CITI Program - Data or Specimens Only Research (IRB)	Record ID: 66353578
Nov. 2024	CITI Program - Animal Biosafety	Record ID: 39539397

## Peer Review Activity

### Scientific Journals

BioMed Central	Genomic Data
Frontiers in Pediatrics	Pediatric Infectious Diseases
Frontiers in Chemistry	Chemical Biology
Frontiers in Immunology	Vaccines and Molecular Therapeutics
Frontiers in Physiology	Red Blood Cell Physiology
Frontiers in Medicine	Infectious Diseases: Pathogenesis and Therapy
Frontiers in Public Health	Infectious Diseases: Epidemiology and Prevention
Science Advances	Biomedicine and Life Sciences
Nature	Scientific Reports

### Grant Reviews

NIH SBIR/STTR    Biobehavioral Processes    2025/01 ZRG1 BP-C (10) B

## Public Sequence Contributions

NCBI SRA	BioProject: PRJNA783000	<i>P. falciparum</i> CSP/ MSP-1 ampli-con sequences	Ghana	90 samples
NCBI SRA	BioProject: PRJNA784582	<i>P. vivax</i> transcriptomes	Ethiopia	10 samples
GenBank	Accessions: OQ308838 to 53 OQ339140 to 49, OQ341668 to 74	<i>Clypeasteroida</i> mtDNA and rRNA	Taiwan	32 samples
NCBI GEO	Study: GSE252307	<i>D. rerio</i> MECP2 mutant/wild type transcriptomes	United States	20 samples

## Funding

Apr. 2025 - Sep. 2025	<i>Tuple Summer Internship Funding: AI Enabled Protein Design and Targeted Antibody Development</i> NCBiotech Industrial Internship Program, \$4,000, Funded: IIP-P-9324
Oct. 2024 - Sep. 2026	<i>Empowering Advanced Alzheimer's Disease and Dementia Research Through Remote Patient Monitoring and Cloud-Based Wearable Devices</i> NIH NIA SBIR Phase II, \$2,336,486, Funded: 2R44AG072981-02A1
Aug. 2024 - Jul. 2025	<i>Augmented Preclinical Alzheimer's Disease Detection Through Wearable Health and Driving Behavior Data</i> NIH NIA SBIR Phase I, \$505,516, Funded: 1R43AG087803-01A1
Aug. 2023 - Jul. 2024	<i>Entomological Surveillance Dashboard, Harnessing Geographic Information Systems to Modernize Military Entomology</i> US DoD Army, \$150,000, Funded: W91Y TZ23P0058
Aug. 2021 - Jul. 2023	<i>A Multifaceted Digital Health Application to Advance Alzheimer's Disease Patient Monitoring, Safety, Caregiving, and Research</i> NC SBIR Match, \$75,000, Funded: 72494247 22-017
Aug. 2021 - Jul. 2023	<i>A Multifaceted Digital Health Application to Advance Alzheimer's Disease Patient Monitoring, Safety, Caregiving, and Research</i> NIH NIA SBIR Phase I, \$495,787, Funded: 1R43AG072981-01A1
Apr. 2021 - Sep. 2022	<i>Investigating the Utility of Digital Biomarkers with Wearable Devices and Artificial Intelligence in Alzheimer's Disease and other Neurological Disorders</i> NSF I-Corps, \$50,000, Funded: 2127407
May 2020 - Dec. 2020	<i>Analytical Modeling of IoMT data to predict onset and progression of Alzheimer's</i> UNCC SDS Seed Grant, \$20,000, Funded: 2020009
Jan. 2019 - May 2019	<i>Azure Funding for Cloud Computing Course</i> Microsoft, \$30,000, Funded: 5745151
Oct. 2014 - Present	<i>Various Business Incentive Funds (BIF), Partner Investment Engine (PIE) Funds, GoFast Funding, and End Customer Investment Funds (ECIF)</i> Microsoft, >\$750,000, Funded

Last updated: February 2, 2025

[www.colbyford.com](http://www.colbyford.com)