# Jaron Arbet, Ph.D.

#### SENIOR BIOINFORMATICIAN

UCLA Jonsson Comprehensive Cancer Center

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# Research Interests

- Machine learning and predictive modeling
- High-dimensional "Big Data"
- · Variable selection
- Multi-omics cancer data integration
- Robust nonparametric statistics

# **Work Experience**

Senior Bioinformatician April 2022 - Present

JONSSON COMPREHENSIVE CANCER CENTER, UNIVERSITY OF CALIFORNIA LOS ANGELES, CA

- · Analysis of cancer molecular data: whole genome sequencing, RNA-Seq, DNA methylation, proteomics
- · Biomarker identification: among thousands of molecular features, which are most associated with cancer outcomes?
- Daily git/github use for version control and collaboration
- Supervised machine learning for predicting cancer prognosis
- Unsupervised machine learning for deriving cancer subtypes
- Supervising undegraduate and graduate students on projects
- · Develop open-source R packages for sharing software with broader scientific community
- Create statistical analysis plans and power/sample size estimation for grants

Staff Biostatistician Jan 2021 - April 2022

EDWARDS LIFESCIENCES, IRVINE, CA

- Develop statistical analysis plans and data monitoring for clinical trials
- Power and sample size estimation
- Clinical study reports for federal regulatory agencies
- Perform analyses with large national database (STS/ACC TVT Registry) including propensity score matching for causal inference

#### **Postdoctoral Research Associate**

Aug 2018 - Jan 2021

University of Colorado Anschutz Medical Campus, Department of Biostatistics and Informatics, Aurora, CO

- Provided statistical consulting services
- Published scientific manuscripts
- Developed grants (statistical analysis plan, power/sample size estimation)
- Supervised students and MS/MPH degree biostatisticians
- · Taught BIOS 6601 Intro stats course for 75 MPH students, and created annual 6-week data science machine learning short course
- · Develop new statistical methodology

Research Assistant

June 2014 - July 2018

University of Minnesota, Division of Biostatistics, Minneapolis, MN

 Developed variable selection methods for high dimensional genetic data and robust methods for estimating the genetic heritability of disease traits

# **Statistical Genetics Research Intern**

June - Aug 2013

DORDT COLLEGE, DEPARTMENT OF MATHEMATICS, SIOUX CENTER, IA

 Developed methods for aggregating different statistical tests together for greater sensitivity in detecting disease-related genes; resamplingbased bias corrected tests

## **Math and Statistics Tutor**

Sept 2012 - May 2014

WINONA STATE UNIVERSITY, WINONA, MN

# **Education**

University of MinnesotaMinneapolis, MN, USAPHD BIOSTATISTICS2014-2018

• GPA: 3.7

JARON ARBET, Ph.D. · CURRICULUM VITAE

• GPA: 4.0 | Summa Cum Laude

# Peer-reviewed Publications

- Jones, L. W., Lavery, J. A., Tsai, B. L., Moskowitz, C. S., Lee, C. P., Harrison, J., Michalski, M. G., Stoeckel, K., Graham, C., Iyengar, N. M., Bhanot, U., Linkov, I., Jain, M., Jochelson, M. S., Monetti, M., Seewaldt, V. L., Pilewskie, M. L., Pribil, P., Zhu, C., Arbet, J., Mangino, D. A., & Boutros, P. C. (2025). A co-clinical trial of exercise therapy in breast cancer prevention. Clinical Cancer Research, OF1-OF11. https://doi.org/10.1158/1078-0432.ccr-24-4298
- Tohi, Y., Sahrmann, J. M., Arbet, J., Kato, T., Lee, L. S., Peacock, M., Ginsburg, K., Pavlovich, C., Carroll, P., Bangma, C. H., Sugimoto, M., & Boutros, P. C. (2025). De-escalation of monitoring in active surveillance for prostate cancer: Results from the GAP3 consortium. *European Urology Oncology*, 8(2), 347–354. https://doi.org/10.1016/j.euo.2024.07.006
- 3. Xu, X., Zhu, H., Hugh-White, R., Livingstone, J., Eng, S., Zeltser, N., Wang, Y., Pajdzik, K., Chen, S., Houlahan, K. E., Luo, W., Liu, S., Xu, X., Sheng, M., Guo, W. Y., **Arbet, J.**, Song, Y., Wang, M., Zeng, Y., Wang, S., Zhu, G., Gao, T., Chen, W., Ci, X., Xu, W., Xu, K., Orain, M., Picard, V., Hovington, H., Bergeron, A., ... He, H. H. (2025). The landscape of N6-methyladenosine in localized primary prostate cancer. *Nature Genetics*, *57*(4), 934–948. https://doi.org/10.1038/s41588-025-02128-y
- 4. Weiner, A. B., Agrawal, R., Wang, N. K., Sonni, I., Li, E. V., **Arbet, J.**, Zhang, J. J. H., Proudfoot, J. A., Hong, B. H., Davicioni, E., Kane, N., Valle, L. F., Kishan, A. U., Pra, A. D., Ghadjar, P., Sweeney, C. J., Nickols, N. G., Karnes, R. J., Shen, J., Rettig, M. B., Czernin, J., Ross, A. E., Lee Kiang Chua, M., Schaeffer, E. M., Calais, J., Boutros, P. C., & Reiter, R. E. (2024). Molecular hallmarks of prostate-specific membrane antigen in treatment-naïve prostate cancer. *European Urology*, 86(6), 579–587. https://doi.org/10.1016/j.eururo.2024.09.005
- 5. Lippitt, W., Carlson, N. E., **Arbet, J.**, Fingerlin, T. E., Maier, L. A., & Kechris, K. (2024). Limitations of clustering with PCA and correlated noise. *Journal of Statistical Computation and Simulation*, 94(10), 2291–2319. https://doi.org/10.1080/00949655.2024.2329976
- 6. Ni, K., Rogowitz, E., Farahmand, A. K., Kaizer, L. K., **Arbet, J.**, Cunningham, C. R., Thomas, E. A., & Saxon, D. R. (2024). Weight loss outcomes in a veterans affairs pharmacotherapy-based weight management clinic. *Journal of the Endocrine Society*, 8(5). https://doi.org/10.1210/jendso/bvae042
- 7. Greca, A. L., Grau, L., **Arbet, J.**, Liao, L. M., Sosa, J. A., Haugen, B. R., & Kitahara, C. M. (2023). Anthropometric, dietary, and lifestyle factors and risk of advanced thyroid cancer: The NIH-AARP diet and health cohort study. *Clinical Endocrinology*, 99(6), 586–597. https://doi.org/10.1111/cen.14970
- 8. Gamallat, Y., Choudhry, M., Li, Q., Rokne, J. G., Alhajj, R., Abdelsalam, R., Ghosh, S., **Arbet, J.**, Boutros, P. C., & Bismar, T. A. (2023). Serrate RNA effector molecule (SRRT) is associated with prostate cancer progression and is a predictor of poor prognosis in lethal prostate cancer. *Cancers*, *15*(10), 2867. https://doi.org/10.3390/cancers15102867
- 9. Chan, T. W., Dodson, J. P., **Arbet, J.**, Boutros, P. C., & Xiao, X. (2022). Single-cell analysis in lung adenocarcinoma implicates RNA editing in cancer innate immunity and patient prognosis. *Cancer Research*, 83(3), 374–385. https://doi.org/10.1158/0008-5472.can-22-1062
- 10. Grau, L., **Arbet, J.**, Ostendorf, D. M., Blankenship, J. M., Panter, S. L., Catenacci, V. A., Melanson, E. L., & Creasy, S. A. (2022). Creating an algorithm to identify indices of sleep quantity and quality from a wearable armband in adults. *Sleep Science*, *15*(03), 279–287. https://doi.org/10.5935/1984-0063.20220052
- 11. Creasy, S. A., Ostendorf, D. M., Blankenship, J. M., Grau, L., **Arbet, J.**, Bessesen, D. H., Melanson, E. L., & Catenacci, V. A. (2022). Effect of sleep on weight loss and adherence to diet and physical activity recommendations during an 18-month behavioral weight loss intervention. *International Journal of Obesity*, 46(8), 1510–1517. https://doi.org/10.1038/s41366-022-01141-z
- 12. Lin, N. W., **Arbet, J.**, Mroz, M. M., Liao, S.-Y., Restrepo, C. I., Mayer, A. S., Li, L., Barkes, B. Q., Schrock, S., Hamzeh, N., Fingerlin, T. E., Carlson, N. E., & Maier, L. A. (2022). Clinical phenotyping in sarcoidosis using cluster analysis. *Respiratory Research*, 23(1). https://doi.org/10.1186/s12931-022-01993-z
- 13. Okamoto, Y., Devoe, S., Seto, N., Minarchick, V., Wilson, T., Rothfuss, H. M., Mohning, M. P., **Arbet, J.**, Kroehl, M., Visser, A., August, J., Thomas, S. M., Charry, L. L., Fleischer, C., Feser, M. L., Frazer? Abel, A. A., Norris, J. M., Cherrington, BrianD., Janssen, W. J., Kaplan, M. J., Deane, K. D., Holers, V. M., & Demoruelle, M. K. (2021). Association of sputum neutrophil extracellular trap subsets with IgA anti–citrullinated protein antibodies in subjects at risk for rheumatoid arthritis. *Arthritis & Rheumatology*, 74(1), 38–48. https://doi.org/10.1002/art.41948

- 14. Wood, C., **Arbet, J.**, Amura, C. R., Nodine, P., Collins, M. R., Orlando, B. S., Mayer, D. C., Stein, D., & Anderson, J. (2021). Multicenter study evaluating nitrous oxide use for labor analgesia at high- and low-altitude institutions. *Anesthesia & Analgesia*, 134(2), 294–302. https://doi.org/10.1213/ane.000000000005712
- 15. Nodine, P. M., **Arbet, J.**, Jenkins, P. A., Rosenthal, L., Carrington, S., Purcell, S. K., Lee, S., & Hoon, S. (2021). Graduate nursing student stressors during the COVID-19 pandemic. *Journal of Professional Nursing*, 37(4), 721–728. https://doi.org/10.1016/j.profnurs.2021.04.008
- 16. **Arbet, J.**, Zhuang, Y., Litkowski, E., Saba, L., & Kechris, K. (2021). Comparing statistical tests for differential network analysis of gene modules. *Frontiers in Genetics*, 12. https://doi.org/10.3389/fgene.2021.630215
- 17. Ostendorf, D. M., Blankenship, J. M., Grau, L., **Arbet, J.**, Mitchell, N. S., Creasy, S. A., Caldwell, A. E., Melanson, E. L., Phelan, S., Bessesen, D. H., & Catenacci, V. A. (2021). Predictors of long-term weight loss trajectories during a behavioral weight loss intervention: An exploratory analysis. *Obesity Science & Practice*, 7(5), 569–582. https://doi.org/10.1002/osp4.530
- 18. Reed, S. M., **Arbet**, **J.**, & Staubli, L. (2021). Clinical nurse specialists in the united states registered with a national provider identifier. *Clinical Nurse Specialist*, *35*(3), 119–128. https://doi.org/10.1097/nur.0000000000000592
- 19. Rosenthal, L., Lee, S., Jenkins, P., **Arbet, J.**, Carrington, S., Hoon, S., Purcell, S. K., & Nodine, P. (2021). A survey of mental health in graduate nursing students during the COVID-19 pandemic. *Nurse Educator*, 46(4), 215–220. https://doi.org/10.1097/nne.0000000000001013
- 20. Carpenter, C. M., Frank, D. N., Williamson, K., **Arbet, J.**, Wagner, B. D., Kechris, K., & Kroehl, M. E. (2021). tidyMicro: A pipeline for microbiome data analysis and visualization using the tidyverse in r. *BMC Bioinformatics*, 22(1). https://doi.org/10.1186/s12859-021-03967-2
- 21. Ramakrishnan, V. R., **Arbet, J.**, Mace, J. C., Suresh, K., Shintani Smith, S., Soler, Z. M., & Smith, T. L. (2021). Predicting olfactory loss in chronic rhinosinusitis using machine learning. *Chemical Senses*, 46. https://doi.org/10.1093/chemse/bjab042
- 22. Thomas, E. A., Zaman, A., Cornier, M.-A., Catenacci, V. A., Tussey, E. J., Grau, L., **Arbet, J.**, Broussard, J. L., & Rynders, C. A. (2020). Later meal and sleep timing predicts higher percent body fat. *Nutrients*, *13*(1), 73. https://doi.org/10.3390/nu13010073
- 23. Schmanski, A., Roberts, E., Coors, M., Wicks, S. J., **Arbet, J.**, Weber, R., Crooks, K., Barnes, K. C., & Taylor, M. R. G. (2020). Research participant understanding and engagement in an institutional, self-consent biobank model. *Journal of Genetic Counseling*, 30(1), 257–267. https://doi.org/10.1002/jgc4.1316
- 24. **Arbet, J.**, Brokamp, C., Meinzen-Derr, J., Trinkley, K. E., & Spratt, H. M. (2020). Lessons and tips for designing a machine learning study using EHR data. *Journal of Clinical and Translational Science*, 5(1). https://doi.org/10.1017/cts.2020.513
- 25. **Arbet, J.**, McGue, M., & Basu, S. (2020). A robust and unified framework for estimating heritability in twin studies using generalized estimating equations. *Statistics in Medicine*, 39(27), 3897–3913. https://doi.org/10.1002/sim.8564
- 26. Coleman-Minahan, K., Sheeder, J., **Arbet, J.**, & McLemore, M. R. (2020). Interest in medication and aspiration abortion training among colorado nurse practitioners, nurse midwives, and physician assistants. *Women's Health Issues*, 30(3), 167–175. https://doi.org/10.1016/j.whi.2020.02.001
- 27. Gance-Cleveland, B., Linton, A., **Arbet, J.**, Stiller, D., & Sylvain, G. (2020). Predictors of overweight and obesity in childhood cancer survivors. *Journal of Pediatric Oncology Nursing*, 37(3), 154–162. https://doi.org/10.1177/1043454219897102
- 28. James-Allan, L. B., **Arbet, J.**, Teal, S. B., Powell, T. L., & Jansson, T. (2019). Insulin stimulates GLUT4 trafficking to the syncytiotrophoblast basal plasma membrane in the human placenta. *The Journal of Clinical Endocrinology & Metabolism*, 104(9), 4225–4238. https://doi.org/10.1210/jc.2018-02778
- 29. Grinde, K. E., **Arbet, J.**, Green, A., O'Connell, M., Valcarcel, A., Westra, J., & Tintle, N. (2017). Illustrating, quantifying, and correcting for bias in post-hoc analysis of gene-based rare variant tests of association. *Frontiers in Genetics*, 8. https://doi.org/10.3389/fgene.2017.00117
- 30. **Arbet, J.**, McGue, M., Chatterjee, S., & Basu, S. (2017). Resampling-based tests for lasso in genome-wide association studies. *BMC Genetics*, *18*(1). https://doi.org/10.1186/s12863-017-0533-3
- 31. Greco, B., Hainline, A., **Arbet, J.**, Grinde, K., Benitez, A., & Tintle, N. (2015). A general approach for combining diverse rare variant association tests provides improved robustness across a wider range of genetic architectures. *European Journal of Human Genetics*, 24(5), 767–773. https://doi.org/10.1038/ejhg.2015.194

# **Q** Awards.

## POSTDOCTORAL

| Staff appreciation and recognition (STAR)  UCLA JONSSON COMPREHENSIVE CANCER CENTER   | 2023-2024 |
|---|-----------|
| Staff appreciation and recognition (STAR)  UCLA JONSSON COMPREHENSIVE CANCER CENTER   | 2022-2023 |
| ■ STUDENT AWARDS  |           |
| Outstanding Research Assistant Award University of Minnesota, Division of Biostatistics & Health Data Science Interdisciplinary Biostatistics Training Grant in Genetics and Genomics National Institute of General Medical Sciences                                  | 2017-2018 |
| COMPETITIONS  |           |
| Midwest Undergraduate Data Analysis Competition (MUDAC) School of Education, University of Michigan  • 3 <sup>rd</sup> place out of 20 teams from 14 universities   | 2014      |
| 1st place in the "predictive-modeling class competition"  Winona State University Data Mining Course  | 2014      |
| Midwest Undergraduate Data Analysis Competition (MUDAC) School of Education, University of Michigan  • 2 <sup>nd</sup> place out of 15 teams from 10 universities   | 2013      |
| Presentations   |           |
| DEPARTMENTAL  |           |
| Batch effects: problem and solution  Boutros Lab, Cancer Data Sciences, University of California, Los Angeles, CA  https://jarbet.github.io/presentations/2025-05-08_batch_effects_nowhite.pdf  | 2025      |
| <pre>p-value histograms  Boutros Lab, Cancer Data Sciences, University of California, Los Angeles, CA • https://jarbet.github.io/presentation-pvalue-histograms/</pre>  | 2025      |
| Robust regression for noisy biological data  Statistics Working Group, Cancer Data Sciences, University of California, Los Angeles, CA  • https://jarbet.github.io/presentation-ordinal-regression/ordinal_regression.html  | 2024      |
| Linear regression diagnostics  BOUTROS LAB, CANCER DATA SCIENCES, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CA  • https://jarbet.github.io/presentation-regression-diagnostics/regression_diagnostics.html   | 2024      |
| Causal inference with observational data using propensity score matching  Statistics Working Group, Cancer Data Sciences, University of California, Los Angeles, CA  • https://jarbet.github.io/presentation-causal-inference-matching/causal_inference_matching.html | 2024      |
| Automatic feature selection and engineering with MARS  Statistics Working Group, Cancer Data Sciences, University of California, Los Angeles, CA  • https://jarbet.github.io/presentation-mars.github.io/presentation-mars.html                                       | 2023      |
| Introduction to Bayesian statistics  BOUTROS LAB, CANCER DATA SCIENCES, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CA  • https://jarbet.github.io/presentations/2022-08-25_Bayesian_stats.pdf   | 2022      |
| Multiomics cancer data analysis  Boutros Lab, Cancer Data Sciences, University of California, Los Angeles, CA  https://jarbet.github.io/presentations/2021-11-21_multiomics_cancer.pdf  | 2021      |

| Interpretable machine learning  |                    |
|---|--------------------|
| CENTER FOR INNOVATIVE DESIGN AND ANALYSIS, UNIVERSITY OF COLORADO, DENVER, CO           | 2021               |
| • https://jarbet.github.io/presentations/2020-01-21_interpretable_machine_learning.pdf  |                    |
| Differential Network Analysis of Gene Modules   |                    |
| Systems Genetics and Bioinformatics Research Lab, University of Colorado, Denver, CO    | 2021               |
| Frequentist versus Bayesian Approaches to Statistics: A Debate                          |                    |
| DEPARTMENT OF BIOSTATISTICS AND INFORMATICS, UNIVERSITY OF COLORADO, DENVER, CO         | 2018               |
| Robust Estimation of Genetic and Environmental Variance Components in Twin Studies      |                    |
| University of Minnesota Biostatistics Student Seminar Series, Minneapolis, MN           | 2017               |
| A General framework for Association Tests with Multivariate Traits in Large-Scale       |                    |
| Genomics Studies  |                    |
| University of Minnesota Statistical Genetics Journal Club, Minneapolis, MN              | 2016               |
| Methods of Inference for Penalized Regression in High-Dimensional Genetic Association   |                    |
| Studies   |                    |
| School of Public Health Research Day, University of Minnesota, Minneapolis, MN          | 2016               |
| Penalized Regression for High-Dimensional Genetic Association Testing                   |                    |
| University of Minnesota Statistical Genetics Journal Club, Minneapolis, MN              | 2016               |
| Conferences   |                    |
| The Landscape of Prostate Tumour Methylation  | Poster             |
| UCLA HEALTH JONSSON COMPREHENSIVE CANCER CENTER ANNUAL SYMPOSIUM, LOS ANGELES, CA       | 2025               |
| Methylome-Genome Interactions Define Disease Aggression in Localized Prostate Cancer    | Poster             |
| RECOMB/ISCB Conference on Regulatory and Systems Genomics, Los Angeles, CA              | 2024               |
| Triplet matching: propensity score matching with 3 groups                               | Talk               |
| 14TH ANNUAL FDA/ADVAMED MEDICAL DEVICE STATISTICAL ISSUES CONFERENCE (VIRTUAL)          | 2022               |
| • https://jarbet.github.io/presentations/20220422_triplet_matching.pdf                  |                    |
| Statistical Considerations and Methods to Utilize Real World Evidence in Medical Device |                    |
| Evaluation  | Panel Co-organizer |
| 14TH ANNUAL FDA/ADVAMED MEDICAL DEVICE STATISTICAL ISSUES CONFERENCE (VIRTUAL)          | 2022               |
| Robust Estimation of Genetic and Environmental Variance Components in Twin Studies      |                    |
| using Generalized Estimating Equations  | Poster             |
| JOINT STATISTICAL MEETINGS (JSM), BALTIMORE, MD   | 2017               |
| Methods of Inference for Penalized Regression in High-Dimensional Genetic Association   | Poster             |
| Studies   |                    |
| EASTERN NORTH AMERICAN REGION INTERNATIONAL BIOMETRIC SOCIETY (ENAR), AUSTIN, TX        | 2016               |
| What now? Post-Hoc Approaches for Gene-based Rare-Variant Tests of Association          | Poster             |
| AMERICAN SOCIETY OF HUMAN GENETICS CONFERENCE (ASHG), BOSTON, MA                        | 2013               |
| General Approaches for Combining Rare Variant Association Tests Provide Improved        | Poster             |
| Power Across a Wide Range of Genetic Architectures                                      |                    |

# **♣** Teaching Experience \_

AMERICAN SOCIETY OF HUMAN GENETICS CONFERENCE (ASHG), BOSTON, MA

# SEMESTER COURSES

## **BIOS 6601 - Applied Biostatistics I**

Fall 2019

2013

University of Colorado Anschutz Medical Campus

- *Duty*: Sole Instructor, completely redesigned all lectures, homework, quizzes, and exams
- **Description**: Applied biostatistical methods including descriptive and statistical inference; odds ratio and relative risk, probability theory, parameter estimation, tests for comparing statistics of two or more groups, correlation, linear regression, logistic regression and survival analysis.
- Credits: 3
- Audience: 75 Masters of Public Health (MPH) students

#### **Fundamentals of Data Science Literacy**

University of Colorado Anschutz Medical Campus

- Duty: lead organizer, developed and taught 3 machine learning lectures
- Description: 6-week short course (2 hours/week) on data science with emphasis on how machine learning and data mining are used in biomedical research. Topics included: 1) Overview of Data Science; 2) Introduction of Machine Learning in Biomedical Research; 3) Clustering and Pattern Finding (unsupervised Machine Learning); 4) Powerful Predictive Models and Variable Selection (supervised Machine Learning); 5) Fundamentals of Data Visualization; 6): Reproducible Research and Team Science
- Audience: 20 medical researchers, mostly non-statisticians

Introduction to Statistics Summer 2019, 2020

University of Colorado Anschutz Medical Campus

- Duty: Instructor, developed and taught lectures on "Introduction to statistics", study design, and survey design
- Description: Introductory statistics day-long short course for UCHealth nurses
- Audience: 15 UCHealth Nurses

## ■ GUEST LECTURES

#### IPHY 5900 - Data Literacy in Biomedical Research

Nov 2019, Oct 2020

Summer 2019, Fall 2020

University of Colorado Boulder

- Primary Instructor: Dr. Celine Marie Claire D. Vetter, Integrative Physiology
- Lecture: Machine Learning in Biomedical Research

#### BIOS 6611 - Biostatistical Methods I

Fall 2018

University of Colorado School of Public Health

- Primary Instructor: Dr. Alex Kaizer
- Lecture: Linear Algebra Review

# Mentoring and supervising

UNIVERSITY OF CALIFORNIA LOS ANGELES

# Supervising students for data analysis projects

- Yuxi Song
- · Sattwik Banerjee
- · Adriana Wiggins

### ■ UNIVERSITY OF COLORADO, DEPARTMENT OF BIOSTATISTICS AND INFORMATICS

### **Supervising MPH/MS Statisticians**

- Laura Grau (MPH), Nov 2018 Jan 2021
  - I supervised Laura on several projects which led to publications.

#### Supervising students for data analysis projects

- Yaxu Zhuang (PhD), Jan 2019 Aug 2020
- Rachel Weber (MS), Dec 2018 April 2019

### Thesis or Dissertation Committee Member (graduating year)

- Charlie Carpenter, Biostatistics MS thesis committee, Biostatistics (2020)
- Rachel Blumhagen, Biostatistics PhD dissertation committee (2021)

# Professional Service

#### GRANT AND PROTOCOL REVIEWS

Scientific Advisory & Review Committee (SARC), Colorado Clinical and Translational Sciences Institute, University of Colorado – April 2019 to Jan 2021

#### JOURNAL REVIEWER

- Biometrics
- · Genetic Epidemiology
- PeerJ

# ■ COMMITTEES/OTHER

## **Department of Biostatistics and Informatics, University of Colorado**

- Student Admissions Committee, Fall 2018 Spring 2019
- Volunteer Judge for CIDA Hackathon (24 hour data analysis competition), Jan. 2020

# Biostatistics, Epidemiology, & Research Design Core of the Colorado Clinical and Translational Sciences Institute, University of Colorado

• Education Committee, Fall 2018 – Jan 2020

# ☐ Software Skills \_\_\_\_\_

# PROFICIENT



- Over **14 years** of experience with R for data analysis
- I enjoy **developing R packages** to easily share documented code with colleagues and the broader research community. Examples:
  - https://uclahs-cds.github.io/package-PrCaMethy/
  - https://github.com/arbet003/discoMod
- Parallel programming in R using multiple cpus

## git/github

- Version control
- Used daily at UCLA
- · Collaborating with others on projects
- Review colleagues' code
- Assign issues to team members

## **Quarto and Rmarkdown**

- Reproducible research, manuscripts and reports
- Reproducible HTML presentations. Examples: https://jarbet.github.io/presentations
- Websites: https://jarbet.github.io/
- Resume: this resume was made using Rmarkdown with the vitae R package

### **Bayesian statistical programming**

• Proficient with BUGS/JAGS; basic skills with STAN

### BASIC SKILLS

- · Linux command line and bash scripts
  - Daily use of a high-performance computing cluster at UCLA
- Databricks
- · Microsoft Office
- SAS