

WAKE FOREST SCHOOL OF MEDICINE CURRICULUM VITAE

(February 1, 2022)

NAME Byron C. Jaeger, Ph.D.

CURRENT ACADEMIC TITLE Assistant Professor

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Division of Public Health Sciences
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EDUCATION

2008–2012	Furman University Greenville, South Carolina B.S. <i>summa cum laude</i> (Mathematics)
2012–2017	Gillings School of Global Public Health Chapel Hill, North Carolina Ph.D. (Statistics)

Research Advisor: Lloyd J. Edwards, Ph.D.
Thesis: *Extending R^2 to the generalized linear mixed model*

EMPLOYMENT

Academic Appointments

Gillings School of Global Public Health, Chapel Hill, North Carolina

2012–2017	Research Assistant, Department of Biostatistics
2014–2017	Teaching Assistant, Department of Biostatistics
2016–2017	Statistical Consultant, School of Nursing

North Carolina Central University, Durham, North Carolina

2016–2017	Adjunct Professor, School of Business
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University of Alabama at Birmingham, Birmingham, Alabama

2017–2021	Assistant Professor, Department of Biostatistics
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Wake Forest School of Medicine, Wake Forest University, Winston-Salem, North Carolina

2021–Present	Assistant Professor, Department of Biostatistics and Data Science, Division of Public Health Sciences
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ADMINISTRATIVE SERVICE

Institutional Service

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| 2017–2019 | Statistical Lecturer, Kirklin Institute of Research in Surgical Outcomes,
University of Alabama at Birmingham (UAB) School of Medicine. |
| 2017–2021 | Academic Advisor for Andrew Sims, UAB Biostatistics |
| 2017–2018 | Member, Masters Committee for Catherine Jones, UAB Epidemiology. “The association
between physical activity and executive functioning in obese adults” |
| 2018 | Member, Masters Committee for Nora Ahmad Mohammad Balas, UAB Epidemiology.
“Factors associated with breast cancer screening behaviors in a sample of
Jamaican women” |
| 2018–2021 | Member, Diversity Committee, UAB |
| 2018–2020 | Member, Doctoral Committee for Anastasia Hartzes, UAB Biostatistics.
“Evaluating Lumpability in Markov Models: Applying Markov Processes
to Model Disability in Relapsing Multiple Sclerosis Patients” |
| 2018–2020 | Member, Doctoral Committee for Steve Ampah, UAB Biostatistics.
“Marginalized Models with Heterogeneous Random Effects for Zero-inflated
Longitudinal Count Data” |
| 2019–2020 | Member, Undergraduate Honors Thesis Committee for Natalie Simpkins, UAB.
Science and Technology Honors Program |
| 2019–2021 | Member, Doctoral Committee for Charles F. Murchison, UAB Biostatistics.
“Application of Longitudinal Machine Learning Methods in Multi-Study
Alzheimer’s Disease Datasets” |
| 2019–2021 | Member, Doctoral Committee for Boyi Guo, UAB Biostatistics.
“Bayesian Hierarchical Additive Models” |

EXTRAMURAL APPOINTMENTS AND SERVICE

Editorial Boards

1. Member, *Hypertension*, 2019–Present
2. Statistical Section Editor, *Hypertension*, 2022–Present

Advisory Boards

1. Eastern North American Regional Advisory Board Member, 2019–present.
2. Data and Safety Monitoring Board Member, 2021–present, R01 AG068486: Preventing Cognitive Decline by Reducing Blood Pressure Target Trial.
3. Data and Safety Monitoring Board Member, 2021–present, R01 HL153750: Supporting Tailored Adaptive Change and Reinforcement for Medication Adherence Program (STARMAP): Randomized trial of a novel approach to improve adherence among older hypertensive women and men.

Journal Reviewer

1. Hypertension
2. Biometrical Journal
3. Biometrics
4. Journal of the American Society of Nephrology
5. Hypertension Research

6. Journal of Human Hypertension
7. Journal of Bone and Mineral Research
8. Circulation: Cardiovascular Quality and Outcomes
9. Mayo Clinic Proceedings

PROFESSIONAL MEMBERSHIPS AND SERVICE

Memberships

2011–Present	Member, Eastern North American Region, International Biometric Society
2016–Present	Member, American Statistical Association

HONORS AND AWARDS

2007	Regional finalist, Siemens Competition in Math, Science, and Technology
2008	Wylie Scholarship in Mathematics, Furman University
2012	Graduated <i>summa cum laude</i> , Furman University
2012	Phi Beta Kappa, Furman University
2012	DeLany Medal for Excellence in Mathematics, Furman University
2016	Big Data to Knowledge Scholarship
2017	Distinguished Student Paper Award, Eastern North American Region
2019	Finalist; American Heart Association Best Artificial Intelligence and Machine Learning Paper Award

PROFESSIONAL INTERESTS *(Last updated February 1, 2022)*

I am an Assistant Professor in the Department of Biostatistics and Data Science in the Division of Public Health Sciences at Wake Forest School of Medicine (WFSM). After receiving my PhD in Statistics at the University of Chapel Hill in North Carolina, I spent four years in the Department of Biostatistics at the University of Alabama at Birmingham School of Public Health and joined the WFSM faculty in 2021. At Birmingham, I was a Biostatistician of the Jackson Heart Study Hypertension Working Group and the American Heart Association Strategically Focused Research Network. I am currently serving as a member of the Regional Advisory Board for the Eastern North American Region of the International Biometric Society.

My current work is focused on computational optimization of the oblique random survival forest, a machine learning algorithm I previously developed. I have studied the etiology of hypertension and cardiovascular disease from the perspective of observational cohort studies that tracked health behaviors, socioeconomic factors, and diet and exercise habits throughout mid-life. TODO: Add details on work at WFSM.

BIBLIOGRAPHY

My MyNCBI collection is available publicly [here](#). As of February 1, 2022, my h-index was 14 with 1105 total citations. More details can be accessed from my [scholar profile](#).

Peer-Reviewed Journal Articles

1. **Jaeger BC**, Lewis TM. Enumerating graph depletions. Online Journal of Analytic Combinatorics. 2014;9.
2. Dampier C, **Jaeger BC**, Gross HE, Barry V, Edwards L, Lui Y, DeWalt DA, Reeve BB. Responsiveness of PROMIS Pediatric Measures to Hospitalizations for Sickle Pain and Subsequent Recovery. *Pediatr Blood Cancer*. 2016 Jun;63(6):1038-45. DOI: [10.1002/pbc.25931](#). Epub 2016 Feb 8. PMID: [26853841](#); PMCID: [PMC5055833](#).

3. Reeve BB, Edwards LJ, **Jaeger BC**, Hinds PS, Dampier C, Gipson DS, Selewski DT, Troost JP, Thissen D, Barry V, Gross HE, DeWalt DA. Assessing responsiveness over time of the PROMIS® pediatric symptom and function measures in cancer, nephrotic syndrome, and sickle cell disease. *Qual Life Res.* 2018 Jan;27(1):249-257. DOI: [10.1007/s11136-017-1697-z](https://doi.org/10.1007/s11136-017-1697-z). Epub 2017 Sep 7. PMID: [28884421](https://pubmed.ncbi.nlm.nih.gov/28884421/); PMCID: [PMC5771815](https://pubmed.ncbi.nlm.nih.gov/PMC5771815/).
4. **Jaeger BC**, Edwards LJ, Das K, Sen PK. An R^2 statistic for fixed effects in the generalized linear mixed model, *Journal of Applied Statistics.* Epub 2016 June; 44(6):1086-1105. DOI: [10.1080/02664763.2016.1193725](https://doi.org/10.1080/02664763.2016.1193725).
5. Smith AB, **Jaeger BC**, Pinheiro LC, Edwards LJ, Tan HJ, Nielsen ME, Reeve BB. Impact of bladder cancer on health-related quality of life. *BJU Int.* 2018 Apr;121(4):549-557. DOI: [10.1111/bju.14047](https://doi.org/10.1111/bju.14047). Epub 2017 Nov 1. PMID: [28990272](https://pubmed.ncbi.nlm.nih.gov/28990272/).
6. Webster-Clark M, **Jaeger BC**, Zhong Y, Filler G, Alvarez-Elias A, Franceschini N, Díaz-González de Ferris ME. Low agreement between modified-Schwartz and CKD-EPI eGFR in young adults: a retrospective longitudinal cohort study. *BMC Nephrol.* 2018 Aug 6;19(1):194. DOI: [10.1186/s12882-018-0995-1](https://doi.org/10.1186/s12882-018-0995-1). PMID: [30081844](https://pubmed.ncbi.nlm.nih.gov/30081844/); PMCID: [PMC6080537](https://pubmed.ncbi.nlm.nih.gov/PMC6080537/).
7. Baptista LC, **Jaeger BC**, Anton SD, Bavry AA, Handberg EM, Gardner AK, Harper SA, Roberts LM, Sandesara B, Carter CS, Buford TW. Multimodal Intervention to Improve Functional Status in Hypertensive Older Adults: A Pilot Randomized Controlled Trial. *J Clin Med.* 2019 Feb 6;8(2):196. DOI: [10.3390/jcm8020196](https://doi.org/10.3390/jcm8020196). PMID: [30736317](https://pubmed.ncbi.nlm.nih.gov/30736317/); PMCID: [PMC6406861](https://pubmed.ncbi.nlm.nih.gov/PMC6406861/).
8. Bittner V, Colantonio LD, Dai Y, Woodward M, Mefford MT, Rosenson RS, Muntner P, Monda KL, Kilgore ML, **Jaeger BC**, Levitan EB. Association of Region and Hospital and Patient Characteristics With Use of High-Intensity Statins After Myocardial Infarction Among Medicare Beneficiaries. *JAMA Cardiol.* 2019 Sep 1;4(9):865-872. DOI: [10.1001/jamacardio.2019.2481](https://doi.org/10.1001/jamacardio.2019.2481). PMID: [31339519](https://pubmed.ncbi.nlm.nih.gov/31339519/); PMCID: [PMC6659160](https://pubmed.ncbi.nlm.nih.gov/PMC6659160/).
9. Booth JN, Anstey DE, Bello NA, **Jaeger BC**, Pugliese DN, Thomas SJ, Deng L, Shikany JM, Lloyd-Jones D, Schwartz JE, Lewis CE, Shimbo D, Muntner P. Race and sex differences in asleep blood pressure: The Coronary Artery Risk Development in Young Adults (CARDIA) study. *J Clin Hypertens (Greenwich).* 2019 Feb;21(2):184-192. DOI: [10.1111/jch.13474](https://doi.org/10.1111/jch.13474). Epub 2019 Feb 5. PMID: [30719843](https://pubmed.ncbi.nlm.nih.gov/30719843/); PMCID: [PMC6375074](https://pubmed.ncbi.nlm.nih.gov/PMC6375074/).
10. Bowling CB, Deng L, Sakhuja S, Morey MC, **Jaeger BC**, Muntner P. Prevalence of Activity Limitations and Association with Multimorbidity Among US Adults 50 to 64 Years Old. *J Gen Intern Med.* 2019 Nov;34(11):2390-2396. DOI: [10.1007/s11606-019-05244-8](https://doi.org/10.1007/s11606-019-05244-8). Epub 2019 Aug 21. PMID: [31435766](https://pubmed.ncbi.nlm.nih.gov/31435766/); PMCID: [PMC6848639](https://pubmed.ncbi.nlm.nih.gov/PMC6848639/).
11. Harper SA, Roberts LM, Layne AS, **Jaeger BC**, Gardner AK, Sibille KT, Wu SS, Vincent KR, Fillingim RB, Manini TM, Buford TW. Blood-Flow Restriction Resistance Exercise for Older Adults with Knee Osteoarthritis: A Pilot Randomized Clinical Trial. *J Clin Med.* 2019 Feb 21;8(2):265. DOI: [10.3390/jcm8020265](https://doi.org/10.3390/jcm8020265). PMID: [30795545](https://pubmed.ncbi.nlm.nih.gov/30795545/); PMCID: [PMC6406824](https://pubmed.ncbi.nlm.nih.gov/PMC6406824/).
12. Hubbard D, Colantonio LD, Tanner RM, Carson AP, Sakhuja S, **Jaeger BC**, Carey RM, Cohen LP, Shimbo D, Butler M, Bertoni AG, Langford AT, Booth JN 3rd, Kalinowski J, Muntner P. Prediabetes and Risk for Cardiovascular Disease by Hypertension Status in Black Adults: The Jackson Heart Study. *Diabetes Care.* 2019 Dec;42(12):2322-2329. DOI: [10.2337/dc19-1074](https://doi.org/10.2337/dc19-1074). Epub 2019 Oct 7. PMID: [31591089](https://pubmed.ncbi.nlm.nih.gov/31591089/); PMCID: [PMC7011196](https://pubmed.ncbi.nlm.nih.gov/PMC7011196/).

13. **Jaeger BC**, Anstey DE, Bress AP, Booth JN 3rd, Butler M, Clark D 3rd, Howard G, Kalinowski J, Long DL, Ogedegbe G, Plante TB, Shimbo D, Sims M, Supiano MA, Whelton PK, Muntner P. Cardiovascular Disease and Mortality in Adults Aged ≥ 60 Years According to Recommendations by the American College of Cardiology/American Heart Association and American College of Physicians/American Academy of Family Physicians. *Hypertension*. 2019 Feb;73(2):327-334. DOI: [10.1161/HYPERTENSIONAHA.118.12291](https://doi.org/10.1161/HYPERTENSIONAHA.118.12291). PMID: 30595115; PMCID: PMC6392064.
14. **Jaeger BC**, Edwards LJ, Gurka MJ. An R^2 statistic for covariance model selection in the linear mixed model. *Journal of Applied Statistics*. 2019;46(1):164–84. DOI: [10.1080/02664763.2018.1466869](https://doi.org/10.1080/02664763.2018.1466869).
15. **Jaeger BC**, Long DL, Long DM, Sims M, Szychowski JM, Min Y-I, et al. Oblique random survival forests. *The Annals of Applied Statistics*. 2019;13(3):1847–83. DOI: [10.1214/19-AOAS1261](https://doi.org/10.1214/19-AOAS1261).
16. Pugliese DN, Booth JN 3rd, Deng L, Anstey DE, Bello NA, **Jaeger BC**, Shikany JM, Lloyd-Jones D, Lewis CE, Schwartz JE, Muntner P, Shimbo D. Sex differences in masked hypertension: the Coronary Artery Risk Development in Young Adults study. *J Hypertens*. 2019 Dec;37(12):2380-2388. DOI: [10.1097/HJH.0000000000002175](https://doi.org/10.1097/HJH.0000000000002175). PMID: 31246891; PMCID: PMC7006727.
17. Roberts LM, **Jaeger BC**, Baptista LC, Harper SA, Gardner AK, Jackson EA, Pekmezi D, Sandesara B, Manini TM, Anton SD, Buford TW. Wearable Technology To Reduce Sedentary Behavior And CVD Risk In Older Adults: A Pilot Randomized Clinical Trial. *Clin Interv Aging*. 2019 Oct 23;14:1817-1828. DOI: [10.2147/CIA.S222655](https://doi.org/10.2147/CIA.S222655). PMID: 31695350; PMCID: PMC6815758.
18. Siddiqui M, Judd EK, **Jaeger BC**, Bhatt H, Dudenbostel T, Zhang B, Edwards LJ, Oparil S, Calhoun DA. Out-of-Clinic Sympathetic Activity Is Increased in Patients With Masked Uncontrolled Hypertension. *Hypertension*. 2019 Jan;73(1):132-141. DOI: [10.1161/HYPERTENSIONAHA.118.11818](https://doi.org/10.1161/HYPERTENSIONAHA.118.11818). PMID: 30571547; PMCID: PMC6309788.
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21. Balas N, Yun H, **Jaeger BC**, Aung M, Jolly PE. Factors associated with breast cancer screening behaviors in a sample of Jamaican women in 2013. *Women Health*. 2020 Oct;60(9):1032-1039. DOI: [10.1080/03630242.2020.1789260](https://doi.org/10.1080/03630242.2020.1789260). Epub 2020 Jul 12. PMID: 32654623; PMCID: PMC7494050.
22. Bello NA, **Jaeger BC**, Booth JN 3rd, Abdalla M, Anstey DE, Pugliese DN, Lewis CE, Gidding SS, Lloyd-Jones D, Shah SJ, Schwartz JE, Shikany JM, Muntner P, Shimbo D. Associations of awake and asleep blood pressure and blood pressure dipping with abnormalities of cardiac structure: the Coronary Artery Risk Development in Young Adults study. *J Hypertens*. 2020 Jan;38(1):102-110. DOI: [10.1097/HJH.0000000000002221](https://doi.org/10.1097/HJH.0000000000002221). PMID: 31464800; PMCID: PMC6941789.

23. Bodduluri S, Nakhmani A, Reinhardt JM, Wilson CG, McDonald ML, Rudraraju R, **Jaeger BC**, Bhakta NR, Castaldi PJ, Sciurba FC, Zhang C, Bangalore PV, Bhatt SP. Deep neural network analyses of spirometry for structural phenotyping of chronic obstructive pulmonary disease. *JCI Insight*. 2020 Jul 9;5(13):e132781. DOI: [10.1172/jci.insight.132781](https://doi.org/10.1172/jci.insight.132781). PMID: [32554922](https://pubmed.ncbi.nlm.nih.gov/32554922/); PMCID: [PMC7406302](https://pubmed.ncbi.nlm.nih.gov/PMC7406302/).
24. Booth JN 3rd, **Jaeger BC**, Huang L, Abdalla M, Sims M, Butler M, Muntner P, Shimbo D. Morning Blood Pressure Surge and Cardiovascular Disease Events and All-Cause Mortality in Blacks: The Jackson Heart Study. *Hypertension*. 2020 Mar;75(3):835-843. DOI: [10.1161/HYPERTENSION-AHA.119.14233](https://doi.org/10.1161/HYPERTENSION-AHA.119.14233). Epub 2020 Feb 3. PMID: [32008430](https://pubmed.ncbi.nlm.nih.gov/32008430/); PMCID: [PMC7035156](https://pubmed.ncbi.nlm.nih.gov/PMC7035156/).
25. **Jaeger BC**, Booth JN 3rd, Butler M, Edwards LJ, Lewis CE, Lloyd-Jones DM, Sakhuja S, Schwartz JE, Shikany JM, Shimbo D, Yano Y, Muntner P. Development of Predictive Equations for Nocturnal Hypertension and Nondipping Systolic Blood Pressure. *J Am Heart Assoc*. 2020 Jan 21;9(2):e013696. DOI: [10.1161/JAHA.119.013696](https://doi.org/10.1161/JAHA.119.013696). Epub 2020 Jan 9. PMID: [31914878](https://pubmed.ncbi.nlm.nih.gov/31914878/); PMCID: [PMC7033845](https://pubmed.ncbi.nlm.nih.gov/PMC7033845/).
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27. **Jaeger BC**. Tutorial: The Use of Statistical Learning in Pediatric Research. *The Journal of Pediatrics*. 2020;223:231-3.
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29. Sakhuja S, Booth JN, Anstey DE, **Jaeger BC**, Lewis CE, Lloyd-Jones DM, Schwartz JE, Shimbo D, Shikany JM, Sims M, Muntner P. Using Predicted Atherosclerotic Cardiovascular Disease Risk for Discrimination of Awake or Nocturnal Hypertension. *Am J Hypertens*. 2020 Nov 3;33(11):1011-1020. DOI: [10.1093/ajh/hpaa099](https://doi.org/10.1093/ajh/hpaa099). PMID: [32657334](https://pubmed.ncbi.nlm.nih.gov/32657334/); PMCID: [PMC7608525](https://pubmed.ncbi.nlm.nih.gov/PMC7608525/).
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32. Bundy JD, **Jaeger BC**, Huffman MD, Knox SS, Thomas SJ, Shimbo D, Booth JN, Lewis CE, Edwards LJ, Schwartz JE, Muntner P. Twenty-Five-Year Changes in Office and Ambulatory Blood Pressure: Results From the Coronary Artery Risk Development in Young Adults (CARDIA) Study. *Am J Hypertens*. 2021 May 22;34(5):494-503. DOI: [10.1093/ajh/hpaa189](https://doi.org/10.1093/ajh/hpaa189). PMID: [33201230](https://pubmed.ncbi.nlm.nih.gov/33201230/); PMCID: [PMC8140654](https://pubmed.ncbi.nlm.nih.gov/PMC8140654/).
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- pressure monitoring according to the 2017 ACC/AHA blood pressure guideline. *Am J Hypertens*. 2021 Jul 16;hpab110. DOI: [10.1093/ajh/hpab110](https://doi.org/10.1093/ajh/hpab110). Epub ahead of print. PMID: [34270687](https://pubmed.ncbi.nlm.nih.gov/34270687/).
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 35. Hardy ST, Chen L, Cherrington AL, Moise N, **Jaeger BC**, Foti K, Sakhuja S, Wozniak G, Abdalla M, Muntner P. Racial and Ethnic Differences in Blood Pressure Among US Adults, 1999-2018. *Hypertension*. 2021 Dec;78(6):1730-1741. DOI: [10.1161/HYPERTENSIONAHA.121.18086](https://doi.org/10.1161/HYPERTENSIONAHA.121.18086). Epub 2021 Nov 1. PMID: [34719937](https://pubmed.ncbi.nlm.nih.gov/34719937/).
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Presentations at Professional Meetings

1. Narang GL, Smith AB, **Jaeger BC**, Pinheiro L, Edwards LJ, Pruthi R, et al. Changes in Health-Related Quality of Life Among Older Adults with Prostate Cancer: A Case-Control Study. *Journal of the American College of Surgeons*. 2017;225(4):e105.
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3. **Jaeger BC**, LJ Edwards, MJ Gurka. An R-squared Statistic for Covariance Model Selection in the Linear Mixed Model. ENAR Spring Meeting, Atlanta, GA 2018.

4. **Jaeger BC**, LJ Edwards, MJ Gurka. An R-squared Statistic for Covariance Model Selection in the Linear Mixed Model. Joint Statistical Meeting, Vancouver 2018
5. LC Baptista, **Jaeger BC**, SD Anton, AA Bavry, EM Handberg, et al. Change in Metabolic and Inflammatory Biomarkers after a 24-Week Multimodal Intervention. 9th International Conference on Frailty and Sarcopenia Research, Miami, FL 2019
6. **Jaeger BC**, DL Long, DM Long, M Sims, J Szychowski, Y Min, et al. Oblique Random Survival Forests. ICSA Applied Statistics Symposium, Raleigh, NC 2019.
7. D Gupta, **Jaeger BC**, R Cantor, D Koehl, N Bansal, Prolonged Hospital Length Of Stay After Pediatric Heart Transplantation And Its Impact On Outcomes: A PHTS Database Analysis. AHA Scientific Sessions, Philadelphia, PA 2019.
8. Butler M, Kalinowski J, Shimbo D, Sims M, Booth JN, Bress AP, Tanner RM, **Jaeger BC** Fredericks S, Ogedegbe G, Spruill TM. Abstract P179: Hypertension Awareness is Associated With Negative Psychosocial Outcomes in Africans Americans in the Jackson Heart Study (JHS). Circulation. 2019;139(Suppl.1):AP179–AP179
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13. Sakhuja S, Hardy ST, Akinyelure P, **Jaeger BC**, Shimbo D, Bress AP, et al. Abstract P335: Using Cardiovascular Disease Risk Versus Blood Pressure To Guide The Initiation Of Antihypertensive Medication Among Us Adults. Circulation. 2020;141(Suppl.1):AP335–AP335.
14. Segar MW, **Jaeger BC**, Patel KV, Nambi V, Ndumele CE, Correa A, et al. Development and Validation of Machine Learning-based Race-specific Models to Predict 10-year Risk of Heart Failure: A Multi-cohort Analysis. Circulation. 2020;142(Suppl.3):A196–A196.
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16. Wisotzkey BL, Asante-Korang A, Kirklin JK, Cantor R, Koehl D, **Jaeger BC**, et al. Risk Factors for One-year Mortality and Allograft Loss in Pediatric Heart Transplant Patients Using Machine Learning: Analysis of the Pediatric Heart Transplant Society Database. Circulation. 2020;142(Suppl.3):A14239–A14239.

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18. Butts RJ, Kirklin J, Cantor R, Zhao H, **Jaeger BC**, Nandi D, et al. Congenital Heart Disease Classification Improves SRTR Risk Estimation of Waitlist and Early Post-Transplant Mortality for Pediatric Heart Transplantation. *Circulation*. 2021;144(Suppl_1):A11567–A11567
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20. Turkson-Ocran R-AN, Miller ER, Zhao D, Pilla S, Duan D, **Jaeger BC**, et al. Abstract MP14: The Effect Of Time-restricted Feeding On 24-hour Ambulatory Blood Pressure: Results From The Time-restricted Intake Of Meals (TRIM) Study. *Circulation*. 2021;143(Suppl_1):AMP14–AMP14.