

WAKE FOREST SCHOOL OF MEDICINE
CURRICULUM VITAE

(April 25, 2022)

NAME	Byron C. Jaeger, Ph.D.
CURRENT ACADEMIC TITLE	Assistant Professor
ADDRESS	Department of Biostatistics and Data Science Division of Public Health Sciences Wake Forest School of Medicine Medical Center Boulevard Winston-Salem, North Carolina 27157 (336) 716-6956 bjaeger@wakehealth.edu
EDUCATION	
2008–2012	Furman University Greenville, South Carolina B.S. <i>magna 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: <i>Extending R² to the generalized linear mixed model</i>
EMPLOYMENT	
Academic Appointments	
<i>Gillings School of Global Public Health, Chapel Hill, North Carolina</i>	
2012–2017	Research Assistant, Department of Biostatistics
2014–2017	Teaching Assistant, Department of Biostatistics
2016–2017	Statistical Consultant, School of Nursing
<i>North Carolina Central University, Durham, North Carolina</i>	
2016–2017	Adjunct Professor, School of Business
<i>University of Alabama at Birmingham, Birmingham, Alabama</i>	
2017–2021	Assistant Professor, Department of Biostatistics
<i>Wake Forest School of Medicine, Wake Forest University, Winston-Salem, North Carolina</i>	
2021–Present	Assistant Professor, Department of Biostatistics and Data Science, Division of Public Health Sciences

ADMINISTRATIVE SERVICE

Institutional Service

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–Present	Member, Doctoral Committee for Boyi Guo, UAB Biostatistics. “Bayesian Hierarchical Additive Models”
2019–Present	Member, Doctoral Committee for Swati Sakhuja, UAB Epidemiology. “Racial Differences in Auxiliary Ambulatory Blood Pressure Parameters”
2021–Present	Member, Project TOOLBOX Document Management Review Working Group WFSM Department of Biostatistics and Data Science.

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 April 25, 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 at WFSM 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. I am also involved in the Molecular Transducers of Physical Activity Consortium (MoTrPAC) and am currently developing an R package to help investigators in MoTrPAC apply standardized data processing pipelines to the developing MoTrPAC databases in a secure and reproducible manner. In addition, I am leading an investigation of long-term mortality for participants in the Systolic blood Pressure Intervention Trial (SPRINT) as a co-investigator in the SPRINT MIND research group. I am also leading an investigation of trends in blood pressure among Veterans who filled an initial prescription for antihypertensive medication as part of a pilot study funded by the Hypertension working Group at UAB. Last, I am supporting analyses of physical activity examining the association between fitness levels in early adulthood and mortality as a member of the Multi-Ethnic Study of Atherosclerosis (MESA) field center at WFSM.

GRANTS

Current Grants

1. U24 AR071113 (Miller/Pahor/Rejeski) 12/01/2016–11/30/2022

NIH

MoTrPAC

The Consortium Coordinating Center (CCC) for the Molecular Transducers of Physical Activity Consortium (MoTrPAC) will provide support for the organization, administration, planning, standardization, documentation, monitoring, and reporting activities necessary for the success of the MoTrPAC. The CCC will play a pivotal role in ensuring the cohesion of the MoTrPAC by enhancing communication and integration across the study. The CCC will promote strategies to integrate the MoTrPAC activities with the input from the Data Safety Monitoring Board (DSMB), External Scientific Advisors, other experts, and the NIH.

Role: Co-investigator

2. R01 AG055606-02A1 (Reboussin) 06/15/2017–05/31/2024

NIA

SPRINT MIND 2020

Alzheimer's disease has been estimated to effect >46 million individuals globally and 5.8 million persons in the United States. This number is expected to double by 2050. Thus far only one strategy to prevent age-related cognitive impairment has proven to be effective in a randomized controlled trial: the intensive SBP lowering intervention in SPRINT. By obtaining an additional visit with the SPRINT cohort, the proposed study would provide important evidence to inform clinical decision-making on the potential for treatment of hypertension to postpone cognitive decline.

Role: Co-investigator

3. R01HL117323 (Paul Muntner) 07/01/2021–06/30/2025

NIH-NHLBI

Incorporation of a Hypertension Working Group into the Jackson Heart Study

The objective of this grant is to identify novel risk factors for hypertension and potential approaches to improve hypertension control rates and reduce BP related complications among African Americans. We will integrate a strong mentorship component to help early stage investigators (ESIs), especially minority investigators, move towards independence.

Role: Co-investigator

4. 75N92020D00007 (Bertoni) 12/19/2019–12/18/2026

NHLBI

Multi-Ethnic Study of Atherosclerosis (MESA) Field Center (FC)

The scientific objectives are to (1) enhance statistical power to perform analyses of predictors of clinical outcomes, particularly in informative subgroups; (2) study the progression of subclinical to clinical CVD; and (3) identify new risk factors or interactions among factors that inform disease pathophysiology. The operational goals are to (1) continue cohort follow-up and information collection to document clinical events; (2) continue to foster scientific collaborations; and (3) conduct a limited clinical examination of the MESA participants as a platform for ancillary study examination components.

Role: Co-investigator

Past Grant History

Available upon request

BIBLIOGRAPHY

My MyNCBI collection is available publicly [here](#). As of April 25, 2022, my h-index was 14 with 1242 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](#). Epub 2017 Sep 7. [PMID: 28884421](#); [PMCID: 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](#).
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](#). Epub 2017 Nov 1. [PMID: 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](#). [PMID: 30081844](#); [PMCID: 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](#). [PMID: 30736317](#); [PMCID: 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](#). [PMID: 31339519](#); [PMCID: 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; PMCID: PMC6375074.
10. Bowling CB, Deng L, Sakhija 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; PMCID: 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; PMCID: PMC6406824.
 12. Hubbard D, Colantonio LD, Tanner RM, Carson AP, Sakhija 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; PMCID: PMC7011196.
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 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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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](#); [PMCID: 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/HYPERTENSIONAHA.119.14233](https://doi.org/10.1161/HYPERTENSIONAHA.119.14233). Epub 2020 Feb 3. [PMID: 32008430](#); [PMCID: PMC7035156](#).
25. **Jaeger BC**, Booth JN 3rd, Butler M, Edwards LJ, Lewis CE, Lloyd-Jones DM, Sakuja 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](#); [PMCID: PMC7033845](#).
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sure Control Following Stroke: The REGARDS Study. *Stroke.* 2021 Dec;52(12):3944-3952. DOI: [10.1161/STROKEAHA.120.033108](https://doi.org/10.1161/STROKEAHA.120.033108). Epub 2021 Sep 2. PMID: 34470498.

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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.
2. Smith A, Jaeger B, Pinheiro L, Edwards L, Reeve B. MP14-13 CHANGES IN HEALTH-RELATED QUALITY OF LIFE AMONG OLDER ADULTS WITH PROSTATE CANCER: A CASE-CONTROL STUDY. *The Journal of Urology.* 2017;197(4S):e166–7
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 Szycowski, 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
9. Roberts LM, **Jaeger BC**, Baptista LC, Harper SA, Jackson E, Gardner AK, et al. Wearable Technology To Reduce Sedentary Behavior And CVD Risk In Older Adults: A Pilot Trial: 3620 Board no. 308 June 1 9: 30 AM-11: 00 AM. *Medicine and Science in Sports and Exercise.* 2019;51(6S):1004.
10. Siddiqui M, **Jaeger BC**, Judd E, Dudenbostel T, Pollock DM, Pollock J, et al. Novel 24-hour blood pressure profile in patients with resistant hypertension. *Journal of the American College of Cardiology.* 2019;73(9S1):1818–1818.
11. Siddiqui M, **Jaeger BC**, Gaddam K, Dudenbostel T, Judd E, Pollock D, et al. Spironolactone does not change 24 hour blood pressure circadian pattern in resistant hypertensive patients. *Journal of Hypertension.* 2019;37:e313.
12. **Jaeger BC**, Cantor RS, Sthanam V, Rudraraju R. Improving Mortality Predictions for Patients With Mechanical Circulatory Support Using Follow-Up Data and Machine Learning. *Circulation: Genomic and Precision Medicine.* 2020;13(4):e002877.

13. Sakuja 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.
15. Thomas SJ, Booth III JN, **Jaeger BC**, Hubbard D, Sakuja S, Abdalla M, et al. Association of sleep characteristics with nocturnal hypertension and nondipping blood pressure in the CARDIA study. *Journal of the American Heart Association*. 2020;9(7):e015062.
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.
17. Yano Y, Poudel B, Chen L, Sakuja S, **Jaeger BC**, Viera A, et al. Abstract P173: The Impact of Asleep Blood Pressure on the Prevalence of Masked Hypertension by Race/ethnicity: Analysis of Pooled Population-and Community-based Studies. *Circulation*. 2020;141(Suppl_1):AP173–AP173.
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
19. Tajeu GS, Colvin C, Hardy ST, Gaye B, Bress AP, **Jaeger BC**, et al. Prevalence, Risk Factors And Cardiovascular Outcomes Associated With Persistent Blood Pressure Control: The Jackson Heart Study. *Circulation*. 2021;143(Suppl_1):A064–A064.
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.

Invited Extramural Presentations

1. September 28, 2021 **Jaeger BC**. Happier Version Control using Git and GitHub with Rstudio. American Statistical Association Statistical Learning and Data Science Webinar. [Slides here](#)
2. April 20, 2022 **Jaeger BC**. Introduction to R. Biostatistics, Epidemiology, and Research Design (BERD): Lunch & Learn. [Slides here](#)