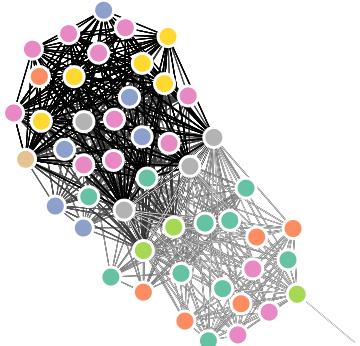


DR. ANDREW LAPOINTE

I have made visualizations viewed by hundreds of thousands of people¹, sped up query times for 25 terabytes of data by an average of 4,800 times², and built packages for R³ that let you do magic⁴.



EDUCATION

2019
|
2014

PhD in Kinesiology

University of Michigan

📍 Ann Arbor, MI

- Thesis: The Relationship Between Repeated Subclinical Head Impacts and Electrophysiological Indices of Brain Function.

2019
|
2014

Certificate in Injury Science

University of Michigan

📍 Ann Arbor, MI

2015
|
2012

MSc in Interdisciplinary Health

Laurentian University

📍 Sudbury, Canada

- Thesis: Examining Daily Quantitative Electroencephalographic (QEEG), Psychophysical and Anthropometric Measures over a One Week Period.

2012
|
2008

Honours BSc in Behavioural Neuroscience

Laurentian University

📍 Sudbury, Canada

- Thesis: Examining Daily Quantitative Electroencephalographic (QEEG), Psychophysical and Anthropometric Measures over a One Week Period.

View this CV online with links at
nickstrayer.me/cv/

CONTACT



andrew.lapointe@ucalgary.ca



github.com/alapo

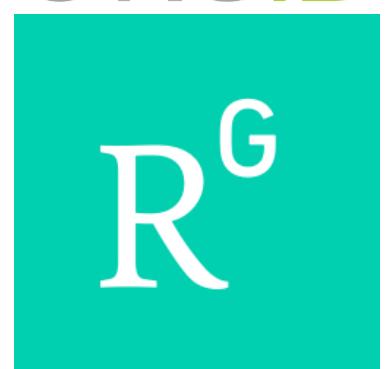


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ORCID



CONFERENCE AND SYMPOSIUM

Upcoming

Functional Near Infrared Spectroscopy as a Biomarker of Response in Patients with Post-Concussion Syndrome Treated with Transcranial Magnetic Stimulation

Hotchkiss Brain Institute (HBI) Research Day

📍 (Virtual Meeting)

Du Plessis, S., Campbell, C., Oni, I.K., **Lapointe, A.P.**, Kirton, A., Dunn, J.F., Debert, C.

Jan 2021

Treatment of Persistent Post Concussion Syndrome with rTMS: Using fNIRS as a Biomarker of response

Annual Canadian Traumatic Brain Injury Research Consortium (CTRC)

📍 (Virtual Meeting)

Du Plessis, S., Oni, I.K., Campbell, C., **Lapointe, A.P.**, Kirton, A., Dunn, J.F., Debert, C.

LANGUAGE SKILLS

R

Javascript (d3.js)

Last updated on 2021-05-30.

C++

Python

Bash

SQL

AWK

Oct 2021	The potential for a head-mounted accelerometer to detect increased sway in concussed populations Alberta Biomedical Engineering Conference	 (Banff, Canada)
	Lapointe, A.P., Ritchie, J.N., Vitali, R., Burma, J.S., Soroush, A., Oni, I.K., Dunn, J.F.	
Aug 2021	How does sport-related concussion alter measures in EEG and fNIRS: Findings from two systematic reviews HBI, ACHRI & Owerko Centre Summer Student Symposium	 (Virtual Meeting)
	Wilson, M., Burma, J.S., Lapointe, A.P., Smirl, J.D.	
Aug 2021	The potential for a head-mounted accelerometer to detect increased sway in concussed populations HBI, ACHRI & Owerko Centre Summer Student Symposium	 (Virtual Meeting)
	Ritchie, J.N., Lapointe, A.P., Vitali, R., Soroush, A., Burma, J.S., Oni, I.K., Dunn, J.F.	
Aug 2021	Development of a clinically viable multimodal neuroimaging protocol: Integration of electroencephalography. HBI, ACHRI & Owerko Centre Summer Student Symposium	 (Virtual Meeting)
	Jiang, S., Lapointe, A.P., Soroush, A., Burma, J.S., Oni, I.K., Dunn, J.F.	
Aug 2021	Electroencephalography-based functional connectivity demonstrates global alpha desynchronization during balance University of Calgary 14th Annual Biomedical Engineering Undergraduate Summer Research Symposium	 (Virtual Meeting)
	Jiang, S., Lapointe, A.P., Burma, J.S., Soroush, A., Oni, I.K., Dunn, J.F.	
Aug 2021	Internal consistency of sway measures from a head-mounted accelerometer in healthy controls University of Calgary 14th Annual Biomedical Engineering Undergraduate Summer Research Symposium	 (Virtual Meeting)
	Ritchie, J.N., Lapointe, A.P., Vitali, R., Soroush, A., Burma, J.S., Oni, I.K., Dunn, J.F.	
Aug 2021	NA 5th Annual McCaig Institute Summer Student Symposium	 (Virtual Meeting)
	NA	
Jun 2021	Challenges integrating a multimodal mobile brain imaging protocol in the clinical assessment of concussion. 8th Annual Canadian Traumatic Brain Injury Research Consortium (CTRC)	 (Virtual Meeting)
	Lapointe, A.P., Soroush, A., Burma, J.S., Oni, I.K., Wang, Q., Dunn, J.F.	
Jun 2021	A Theoretical Framework Evaluating Cerebral Haemodynamic Variability in Concussed Cohorts. 8th Annual Canadian Traumatic Brain Injury Research Consortium (CTRC)	 (Virtual Meeting)
	Soroush, A., Lapointe, A.P., Burma, J.S., Oni, I.K., Wang, Q., Dunn, J.F.	

Jun 2021	Neuroelectric and cerebral oxygenation indices of processing speed in the classification of concussed cohorts. 8th Annual Canadian Traumatic Brain Injury Research Consortium (CTRC) Oni, I.K., Lapointe, A.P., Soroush, A., Burma, J.S., Goodyear, B.G., Dunn, J.F.  (Virtual Meeting)
Jun 2021	Sentiment Analysis of Journal Articles, Press Releases, and News Articles Pertaining to CTE. American College of Sports Medicine Annual Meeting 2020 Todd, K.S., Memmini, A.K., Lapointe, A.P., Broglio, S.P.  (Virtual Meeting)
Jan 2021	Hemodynamic correlates of EEG microstate temporal dynamics: Implications for fNIRS/EEG investigations of resting-state networks. 7th Annual Canadian Traumatic Brain Injury Research Consortium (CTRC) Lapointe, A.P., Oni, I.K., Pearce, S., Burma, J.S., Dunn, J.F.  (Lake Louise, AB)
Aug 2021	Brain Computer Interface (BCI) applications in simultaneous fNIRS-EEG imaging University of Calgary Annual Biomedical Engineering Undergraduate Summer Research Symposium Jamali, M., Lapointe, A.P., Oni, I.K., Dunn, J.F.  (Calgary, Canada)
Aug 2021	Multimodal imaging using EEG, EMG and ECG University of Calgary 14th Annual Biomedical Engineering Undergraduate Summer Research Symposium Wang, Q., Lapointe, A.P., Oni, I.K., Dunn, J.F.  (Calgary, Canada)
Dec 2021	Congruence in hemodynamic and electrophysiological signals during a visual task using fNIRS and EEG. Alberta Children's Hospital Research Institute (ACHRI) Research Retreat 2019 Oni, I.K., Lapointe, A.P., Pearce, S., Dunn, J.F.  (Banff, AB)
Dec 2021	Neuroelectric and hemodynamic measures of functional connectivity: Implications for new biomarkers in advanced paediatric clinical care. Alberta Children's Hospital Research Institute (ACHRI) Research Retreat 2019 Lapointe, A.P., Oni, I.K., Pearce, S., Burma, J.S., Dunn, J.F.  (Banff, AB)
May 2021	Sentiment Analysis of Journal Articles, Press Releases, and News Articles Pertaining to Chronic Traumatic Encephalopathy. 7th Annual Conference of the Sports Neuropsychology Society Todd, K., Lapointe, A.P. & Broglio, S.P.  (Seattle, WSH)
Oct 2021	fNIRS-EEG during a visual checkerboard task: A neurovascular coupling investigation. Biomedical Engineering Society (BMES) Conference Oni, I.K., Lapointe, A.P., Duszynski, C.C., Goodyear, B.G., Dunn, J.F.  (Philadelphia, PA)

Oct 2021	Investigations of neurovascular coupling within the visual cortex using simultaneously recorded fNIRS and EEG. Alberta Biomedical Engineering Conference Oni, I.K., Lapointe, A.P., Duszynski, C.C., Goodyear, B.G., Dunn, J.F.	 (Banff, Canada)
Oct 2021	Objective Performance Assessment of a User-Friendly Pipeline in the Analysis of fNIRS Data. Alberta Biomedical Engineering Conference Pearce, S.A., Randall, C., Oni, I.K., Lapointe, A.P., Duszynski, C.C., Dunn, J.F.	 (Banff, Canada)
Jul 2021	Method for Estimating Three-Dimensional Knee Rotations with Inertial Measurement Units XVII Congress of the International Society of Biomechanics Vitali, R., Lapointe, A.P., Perkins, N.	 (Calgary, Canada)
May 2019	No effect of randomizing concussion symptom presentation on symptom number or severity reporting. American College of Sports Medicine Annual Meeting 2019 Van Pelt, K.L., Dougherty, L.A., Feinberg, G.F., Lapointe, A.P., & Broglio, S.P.	 (Orlando, FL)
May 2019	The Utility of EEG in the Advancement of fNIRS. Cummings School of Medicine Radiology Day. Lapointe, A.P., Dunn, J.F.	 (Calgary, AB)
May 2019	Sentiment Analysis of Journal Articles and News Articles Pertaining to CTE Sports Neuropsychology Society Symposium Todd, K., Lapointe, A.P. & Broglio, S.P.	 (Washington, DC)
May 2019	Functional Near-Infrared Spectroscopy Biochemistry and Molecular Biology Departmental Graduate Association: Method Day Lapointe, A.P.	 (Calgary, AB)
May 2019	Long Term Effects of Concussion on Eye Tracking Patterns American College of Sports Medicine Annual Meeting 2019 Dougherty, L.A., Van Pelt, K.L., Lapointe, A.P., Feinberg, G.F., Memminni, A., Breedlove, K.M. & Broglio, S.P.	 (Orlando, FL)
May 2019	Examining Persistent Deficits in Gait Utilizing Inertial Measurement Units. American College of Sports Medicine Annual Meeting 2019 Feinberg, G.F., Lapointe, A.P., Van Pelt, K.L., Dougherty, L.A., Memminni, A., Breedlove, K.M. & Broglio, S.P.	 (Orlando, FL)
Mar 2019	The Influence of Hormonal Contraceptives on Concussion Outcomes in Collegiate Athletes: Data from the NCAA-DoD CARE Consortium. 13th World Congress on Brain Injury International Brain Injury Association. Jay, J.J., Lapointe, A.P., McAllister, T., McCrea, M., Broglio, S.P., Moore, R.D., & CARE Consortium Investigators.	 (Toronto, Canada)

Mar 2019	Neurodevelopmental Disorders and Risk of Concussion: Findings from the NCAA-DOD Concussion Consortium 13th World Congress on Brain Injury International Brain Injury Association. Gunn, B., Lapointe, A.P., McAllister, T., McCrea, M., Broglio, S.P., Moore, R.D., & CARE Consortium Investigators.	 (Toronto, Canada)
Jan 2019	NA The Canadian Traumatic Brain Injury Research Consortium NA	 (Lake Louise, AB)
Oct 2018	Pupillary Changes after Nonconcussive High-Acceleration Head Impacts in High School Football Athletes. Congress of Neurological Surgeons Annual Meeting Joseph, J.R., Swallow, J.S., Willsey, K., Lapointe, A.P., O'Connor, K., Szerlip, N.J., Broglio, S.P.	 (Houston, TX)
Jul 2018	Method for Calculating Three-Dimensional Knee Rotations with Body-Worn Measurement Units 8th World Congress on Biomechanics Vitali, R., Lapointe, A.P., Perkins, N.	 (Dublin, Ireland)
May 2018	The effect of one season of football exposure on quality of life measures. Sports Neuropsychology Society Symposium Lapointe, A.P., Vokulich, P., Williams, R.M., Rettmann, A., Swallow J., & Broglio S.P.	 (Washington, DC)
May 2021	Pupillary Light Reflex Changes after High Magnitude Sub-Concussive Impacts in High School Football Players Sports Neuropsychology Society Symposium Swallow J.S., Joseph, J.R., Willsey, K., Lapointe A.P., O'Connor K.L., Szerlip, N.J., & Broglio S.P.	 (Washington, DC)
May 2018	Performance Impact from Concussions - NFL Defensive Backs MIDAS Health Sciences Challenge Symposium Wittrup, E.M., Lapointe, A.P., Broglio, S.P.	 (Ann Arbor, MI)
Apr 2018	Pupillary Light Reflex Changes after High Magnitude Sub-Concussive Impacts in High School Football Players Kinesiology Graduate Showcase Swallow J.S., Joseph, J.R., Willsey, K., Lapointe A.P., O'Connor K.L., Szerlip, N.J., & Broglio S.P.	 (Ann Arbor, MI)
Apr 2018	Analysis of JumpCut Maneuver for Center of Mass Kinesiology Graduate Showcase Groll, T., Lapointe A.P., Nolasco, L.A., Sosnowski, A., Andrews, E., Martini, D.N., Palmeiri-Smith, R., Gates, D.H., & Broglio, S.P.	 (Ann Arbor, MI)
Apr 2018	A Season of football has no effect on quality of life measures Kinesiology Graduate Showcase Lapointe A.P., Vokulich, P., Williams, R.M., Rettmann, A., Swallow J., & Broglio S.P.	 (Ann Arbor, MI)

Oct 2017	Exposure to contact sports predicts the reliability of daily quantitative electroencephalographic measurements. World Congress of Neurology Lapointe, A.P., Saroka, K., Broglio, S.P., & Persinger, M.A.	 (Kyoto, Japan)
Oct 2017	Time between impacts as a factor in kinematic models predicting concussion. World Congress of Neurology Lapointe, A.P., OConnor, K.L., & Broglio, S.P.	 (Kyoto, Japan)
Aug 2017	A meta-analytic approach to sport concussion risk categories. MICHR Summer Research Program Swallow J., OConnor K., Lapointe, A.P., Broglio S.P.	 (Ann Arbor, MI)
Jul 2017	Serum biomarker changes are not associated with head impact exposure in high school football athletes. National Neurotrauma Society Joseph, J.R., Swallow, J.S., Lapointe, A.P., Willsey, K., Park, P., Szerlip, N.J., Broglio, S.P.	 (Salt Lake City, Utah)
May 2017	National Hockey League Players Concussion And Lower-Body Injury Risk Across the 2012–2015 Seasons. American College of Sports Medicine Annual Meeting 2017 OConnor, K.L., Lapointe, A.P., Bhargava, T., & Broglio, S.P.	 (Denver, Colorado)
May 2017	Gender Specific Differences in Knee Kinematics Between Participants With And Without A Concussion History. American College of Sports Medicine Annual Meeting 2017 Lapointe, A.P., Nolasco, L., Sosnowski, A., Andrews, E., Martini, D.N., Palmeiri-Smith, R., Gates, D.H., & Broglio, S.P.	 (Denver, Colorado)
Oct 2016	Acute association between football head impact density and learning performance. Massey Regional TBI Conference 2016 OConnor, K.L., Lapointe, A.P., & Broglio, S.P.	 (Ann Arbor, MI)
Oct 2016	Biomechanical differences in a jump cut motion in those with and without a history of concussion. 5th International Consensus on Concussion in Sport Lapointe, A.P., Nolasco, L., Sosnowski, A., Andrews, E., Martini, D.N., Gates, D.H., & Broglio, S.P.	 (Berlin, Germany)
Jun 2016	Landing Kinetics Differences in Individuals with and without a History of Concussion American College of Sports Medicine Annual Meeting 2016 Lapointe, A.P., Sosnowski, A., Andrews, E., Martini, D.N., & Broglio, S.P.	 (Boston, MA)
Jun 2016	Effect of Concussion on Pro Ice Hockey Player Performance. American College of Sports Medicine Annual Meeting 2016 OConnor, K.L., Lapointe, A.P., Galdys, M., & Broglio, S.P.	 (Boston, MA)

Jun 2016	NA 11th Annual Sports-Related Concussion and Spine Injury Conference hosted by the Harvard Medical School	 (Boston, MA)
NA		
Jan 2014	Examining the impact of a sports-related concussion on daily electroencephalographic profiles American Academy of Neurology's 1st Annual Sport Concussion Conference	 (Chicago, IL)
	Lapointe, A.P., Saroka, K., & Persinger, M.A.	
Sep 2014	Examining the effectiveness of the quantitative electroencephalograph (QEEG) in the detection of mild traumatic brain injuries: Past and current research Brain Injury Association of Canada	 (Gatineau, QC)
	Lapointe, A.P., Saroka, K., & Persinger, M.A.	
Jun 2013	Étude électro-encéphalographique d'un individu suite à une commotion cérébrale Laurentian University's Research Week	 (Sudbury, ON)
	Lapointe, A.P.	
Jan 2013	Acute effects and recovery after a sports-related concussion: Neurocognitive and quantitative brain electrical activity study Human Kinetics Conference, Laurentian University	 (Sudbury, ON)
	Lapointe, A.P.	

SELECTED PUBLICATIONS

Primary and metastatic glioblastoma of the spine in the pediatric population: a systematic review

Yang, R., Isaacs, A.M., Cadieux, M., Hirmer, T.J., CreveCoeur, S., **Lapointe, A.P.**, Opoku-Darko, M., Riva-Cambrin, J., Gallagher, C.N. *Child's Nervous System*

 2021

Glioblastoma metastases to the spine in the pediatric population

Isaacs, A.M., Yang, R., Hirmer, T.J., Cadieux, M., Creve-Coeur, T.S., **Lapointe, A.P.**, Opoku-Darko, M., Premji, Z., Riva-Cambrin, J., Gallagher, C.N. *Journal of Neurosurgery: Pediatrics*

 2021

Feasibility and utility of extracting heart rate metrics from neuroimaging data: Theoretical considerations.

Burma, J.S., **Lapointe, A.P.**, Soroush, A., Oni, I.K., Smirl, J.D., Dunn, J.F. *Helijon*

 2021

Meta-Analysis of Concussion Rates and Data Driven Risk Classification

Van Pelt, K.L., Puetz, T., Swallow, J., **Lapointe, A.P.**, Broglio, S.P. *Sports Medicine*

 2021

Acute low-pressure hydrocephalus: a case series and meta-analysis of 195 patients

Keough, M.B., Isaacs, A.M., Urbaneja, G.U., Dronyk, G., **Lapointe, A.P.**, Hamilton, M.G. *Journal of Neurosurgery*

📍 2020

Age-related changes in cortical connectivity during surgical anesthesia

Li, D., Puglia, M.P., **Lapointe, A.P.**, Ip, K., Zierau, M., McKinney, A.M., Vlisides, P.E. *Frontiers in Aging Neuroscience*

📍 2019

Cortical Oscillations and Connectivity During Postoperative Recovery.

Zierau, M., Li, D., **Lapointe, A.P.**, Ip, K., McKinney, A.M., Puglia, M.P., Vlisides, P.E. *Journal of Neurosurgical Anesthesiology*

📍 2019

Near infrared spectroscopy reveals brain hypoxia and cerebrovascular dysregulation in early primary biliary cholangitis.

Duszynski, C.C., Avati, V., Scholkmann, F., Dunn, J.F., **Lapointe, A.P.**, Swain, M.G. *Hepatology*

📍 2019

Evaluating Performance of National Ice Hockey League Players After a Concussion Versus Lower Body Injury

Van Pelt, K.P., **Lapointe, A.P.**, Galdys, M., Dougherty, L.A., Buckley, T.A & Broglio, S.P. *Journal of Athletic Training*

📍 2019

Dynamic Cortical Connectivity during General Anesthesia: a Clinical Study of Surgical Patients.

Vlisides, P.E., Li, D., Zierau, M., **Lapointe, A.P.**, Ip, K., McKinney, A.M., Mashour, G.A. *Anesthesiology* 📍 2019

Elevated markers of brain injury as a result of clinically asymptomatic high-acceleration head impacts in high school football athletes.

Joseph, J.R., Swallow, J.S., Willsey, K., **Lapointe, A.P.**, Khalabari, S., Korley, F.K., Oppenlander, M.E., Park, P., Szerlip, N.J., Broglio, S.P. *Neurosurgery*

📍 2019

Shunt Failure in Adults: Systematic Review and Metanalysis

Isaacs, A.M., Yang, R., Cadieux, M., Yong, H., Opoku-Darko, M., **Lapointe, A.P.**, Frizon, L., Crevecoeur, T., Merisaari, H., Premji, Z., Nagel, S., Hamilton, M.G. *Neurosurgery*

📍 2019

Kinematic differences during a jump cut maneuver between individuals with and without a concussion history.

Lapointe, A.P., Nolasco, L.A., Sosnowski, A., Andrews, E., Martini, D.N., Palmieri-Smith, R.M., Gates, D.H., Broglio, S.P. *International Journal of Psychophysiology*

📍 2017

Brain Network Activation Technology Does Not Assist with Concussion Diagnosis and Return to Play in Football Athletes.

Broglio, S.P., Williams, R., **Lapointe, A.P.**, Rettman, A., Moore, B., Meehan, S.K., Eckner, J.T. *Frontiers of Neurology*

📍 2017

Head impact density: A model to explain the elusive concussion threshold.

Broglio, S.P., Lapointe, A.P., O'Connor, K.L., McCrea, M. *Journal of Neurotrauma*

📍 2017

Landing kinetics differences in individuals with and without a history of concussion.

Lapointe, A.P., Sosnowski, A., Andrews, E., Martini, D.N., Broglio, S.P. *Medicine and Science in Sports Exercise*

📍 2016

Effect of Concussion on Pro Ice Hockey Player Performance

O'Connor, K.L., Lapointe, A.P., Galdys, M., Broglio, S.P. *Medicine and Science in Sports Exercise*,

📍 2016

Marked Increases in Alpha Power Over the Left Prefrontal Region During Days Following Shift Work: A Case Report.

Murugan, N.J., Rouleau, N., Karbowski, L.M., Lapointe, A.P., & Persinger, M.A. *Journal of Sleep Disorders and Management*

📍 2015

Greater electroencephalographic coherence between left and right temporal lobe structures during increased geomagnetic activity.

Saroka, K.S., Caswell, J.M., Lapointe, A.P. & Persinger, M.A. *Neuroscience Letters*

📍 2014

Transnational FieldREG Exploration II: Investigating the FieldREG Phenomenon in a Range of Novel Settings.

Caswell, J. M., Gaona, J. M., Tessaro, L. W. E., Rouleau, N., & Lapointe, A.P. *Journal of Consciousness, Exploration & Research*

📍 2014

The Potential Effects of Human Group Emotion and Subjective Novelty on the Statistical Behaviour of a Random Event Generator: Exploratory Study

Caswell, J.M., Gaona, J.M., Vares, D.A.E., Lapointe, A.P. Burke, R.C., & Tessaro, L.W.E. *Journal of Consciousness Exploration & Research*

📍 2014

INDUSTRY EXPERIENCE

Current
|
2020

Software Engineer

RStudio

📍 Remote

- Helping make programming web applications with R easier and more beautiful on the Shiny team

2016
|
2016

Data Journalist - Graphics Department

New York Times

📍 New York, New York

- Reporter with the graphics desk covering topics in science, politics, and sport.
- Work primarily done in R, Javascript, and Adobe Illustrator.

2015
|
2015

Engineering Intern - User Experience

Dealer.com

📍 Burlington, VT

- Built internal tool to help analyze and visualize user interaction with back-end products.

2015 2015	Data Science Intern Dealer.com <ul style="list-style-type: none">Worked with the product analytics team to help parse and visualize large stores of data to drive business decisions.	 Burlington, VT
2015 2014	Data Artist In Residence Conduce <ul style="list-style-type: none">Envisioned, prototyped and implemented visualization framework in the course of one month.Constructed training protocol for bringing third parties up to speed with new protocol.	 Carpinteria, CA
2014 2014	Software Engineering Intern Conduce <ul style="list-style-type: none">Incorporated d3.js to the company's main software platform.	 Carpinteria, CA

TEACHING EXPERIENCE

2020	Javascript for Shiny Users RStudio::conf 2020 <ul style="list-style-type: none">Served as TA for two day workshop on how to leverage Javascript in Shiny applicationsLectured on using R2D3 package to build interactive visualizations.⁵	
2019 2019	Data Visualization Best Practices DataCamp <ul style="list-style-type: none">Designed from bottom up course to teach best practices for scientific visualizations.Uses R and ggplot2.In top 10% on platform by popularity.	
2019 2019	Improving your visualization in Python DataCamp <ul style="list-style-type: none">Designed from bottom up course to teach advanced methods for enhancing visualization.Uses python, matplotlib, and seaborn.	
2018 2017	Advanced Statistical Learning and Inference Vanderbilt Biostatistics Department <ul style="list-style-type: none">TA and lecturedTopics covered from penalized regression to boosted trees and neural networksHighest level course offered in department	 Nashville, TN
2018 2018	Advanced Statistical Computing Vanderbilt Biostatistics Department <ul style="list-style-type: none">TA and lecturedCovered modern statistical computing algorithms4th year PhD level class	 Nashville, TN

2017
|
2017

Statistical Computing in R

Vanderbilt Biostatistics Department

 Nashville, TN

- TA and lectured
- Covered introduction to R language for statistics applications
- Graduate level class

SELECTED DATA SCIENCE WRITING

2018

Classifying physical activity from smartphone data⁶

RStudio Tensorflow Blog

- Walk through of training a convolutional neural network to achieve state of the art recognition of activities from accelerometer data.
- Contracted article.

SELECTED PRESS (ABOUT)

2016

Concussion repercussions: Studies explore lower extremity effects⁷

Lower Extremity Review

- Featured in June 2016 edition

2014

En Los Límites de la Ciencia (At the Limits of Science)

Television

- Science television program in Spain; international research collaboration (Transnational Anomalies Research – FieldREG initiative)
- Featured on a single episode

2014

En Los Límites de la Ciencia (At the Limits of Science)

Television

- Science television program in Spain; international research collaboration (Transnational Anomalies Research – FieldREG initiative)
- Featured on a single episode

2014

Cope Radio

Television

- International research collaboration (Transnational Anomalies Research – The Premonitions project)
- Featured on multiple radio segments including interviews with team researchers

SELECTED PRESS (BY)

2016
|
2016

The Great Student Migration⁸

The New York Times

- Most shared and discussed article from the New York Times for August 2016.

2016
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2016

Wildfires are Getting Worse, The New York Times⁹

The New York Times

- GIS analysis and modeling of fire patterns and trends
- Data in collaboration with NASA and USGS

2016
|
2016

Who's Speaking at the Democratic National Convention?¹⁰

The New York Times

- Data scraped from CSPAN records to figure out who talked and past conventions.

2016
|
2016

Who's Speaking at the Republican National Convention?¹¹

The New York Times

- Used same data scraping techniques as Who's Speaking at the Democratic National Convention?

2016
|
2016

A Trail of Terror in Nice, Block by Block¹²

The New York Times

- Led research effort to put together story of 2016 terrorist attack in Nice, France in less than 12 hours.
- Work won Silver medal at Malofiej 2017, and gold at Society of News and Design.

LINKS

- 1: <https://www.nytimes.com/interactive/2016/08/26/us/college-student-migration.html>
- 2: https://livefreeordichotomize.com/2019/06/04/using_awk_and_r_to_parse_25tb/
- 3: <https://github.com/nstrayer/shinysense>
- 4: <http://nickstrayer.me/dataDayTexas/>
- 5: http://nickstrayer.me/js4shiny_r2d3/slides
- 6: <https://blogs.rstudio.com/tensorflow/posts/2018-07-17-activity-detection/>
- 7: <http://lernmagazine.com/news/in-the-moment-sports-medicine/concussion-repercussions-studies-explore-lower-extremity-effects>
- 8: <https://www.nytimes.com/interactive/2016/08/26/us/college-student-migration.html?smid=pl-share>
- 9: <https://www.nytimes.com/interactive/2016/07/25/us/wildfire-seasons-los-angeles.html>
- 10: <https://www.nytimes.com/2016/07/26/upshot/democrats-may-not-be-unified-but-their-convention-speakers-are.html>
- 11: <https://www.nytimes.com/2016/07/19/upshot/whos-not-speaking-how-this-republican-convention-differs.html?smid=pl-share>
- 12: <https://www.nytimes.com/interactive/2016/07/14/world/europe/trail-of-terror-france.html>