Krystal Maughan

Krystal.maughan@gmail.com

Github: https://github.com/kammitama5

Tel: 607.342. 6970

Blog: https://kammitama5.github.io/

| Research Interests: Applied Cryptography, Differential Privacy, Provable Fairness, M University of Vermont, PhD candidate Differential Privacy, Provable Fairness, Machine Learning | lachine Learning |
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| · | |
| Differential Privacy Provable Fairness Machine Learning | 2019-present |
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| Skills: Python, R, Haskell, Matlab, Sage, LaTeX, Jupyter, SQL, AWS, PySpark, Sparkly | r, Tensorflow, Git |
| Research Assistant, PLAID Lab (Vermont) | 2019-present |
| Supervisor: Joe Near: Research on Provable Fairness and Privacy | |
| Using Machine Learning. Funded via Amazon Research Award (2020-2022 PI: J. Near, | , D. Darais) |
| Microsoft, Applied Scientist PhD Intern, Summer 2021 (Redmond: remote) Azure E+P Enterprise and Security DI, mentored by Dr. P. Angulo | 2021 |
| Microsoft Research, Independent Contractor, Summer 2021 (New York: remote) Reinforcement Learning Open Source Fest participant (1 of 12) Vowpalwabbit, Integrate Estimator library into Azure Machine Learning (AML) Mentored by C. Tan and A. Taymanov | 2021 |
| Research Intern, Autodesk Summer 2020 (Pier 9, San Francisco: remote) Research Intern for Forge Team, Differential Privacy project | 2020 |
| Graduate Writing Consultant, Fall 2020 (Vermont) Writing Mentor and Consultant for graduate students Technical Writing Consultant for fields as broad as Materials Science to History | 2020-2021 |
| Teacher's Assistant, Fall/Spring 2019-2020 (Vermont) | 2019-2020 |
| Compiler Construction with Haskell (taught by Joe Near) | 2020 |
| Advanced Web Design (taught by Bob Erickson) | |
| Programming with Matlab (taught by Radhakrishna Dasari) | 2019 |
| Data Privacy with Jupyter, Python (taught by Joe Near) | |
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| | |
| RELEVANT WORK EXPERIENCE Mercury Banking (Haskell fintech): Software Engineering Intern (San Francisco) | 2019 |
| | 2019 2019 |
| Mercury Banking (Haskell fintech): Software Engineering Intern (San Francisco) | |

| Door I | Reviewed Workshop Publications: | |
|----------|---|------------|
| | "Towards a Measure of Individual Fairness for Deep Learning" | 2020 |
| • | (Maughan, K. and Near, J.) - presented as poster for MD4SG 2020 | 2020 |
| * | "Towards Audibility for Fairness in Deep Learning" | 2020 |
| • | (Ngong, I., Maughan, K. and Near, J.)- presented as poster for AFCI at NeurIPS | |
| * | "Archipelago Penseé" (Maughan, K.) | 2020 |
| • | - presented as a poster: RAIS at NeurIPS | 2020 |
| | procented de a poster. Italio de Italia | |
| INVITE | ED RESEARCH POSTER PRESENTATIONS | |
| * | "Towards a Measure of Individual Fairness for Deep Learning" (first author) | 2021 |
| | Mediterranean Machine Learning Summer School (M2L) (Winter cohort) | |
| * | Poster Presentation, 4th MD4SGD 2020 Annual Proceedings | 2020 |
| | "Towards a Measure of Individual Fairness for Deep Learning" (first author) | |
| * | Poster Presentation, Carnegie Mellon's (CMU) Al for Social Good Symposium | 2020 |
| | "Examining Implicit Bias in Police Data: Lessons Learned about Reproducibility | |
| | And Transparency in Al" | |
| * | "Towards Audibility for Fairness in Deep Learning" | 2020 |
| | (Ngong, I., Maughan, K. and Near, J.)- presented as poster for AFCI at NeurIPS | |
| | (Algorithmic Fairness through the lens of Causality and Interpretability) | |
| * | Poster Presentation for RAIS at NeurIPS | 2020 |
| | (1st Resistance Al Workshop Proceedings,) "Archipelago Penseé" (first author) | |
| INI\/ITI | ED RESEARCH TALKS | |
| * | "Towards Audit-ability in Individual Fairness for Deep Learning" ; | 2021 |
| • | Career Mentoring Workshop: Grad Cohort for Women (1 of 30) | 2021 |
| * | "Towards a Measure of Individual Fairness for Deep Learning"; | 2021 |
| · | Jane Street PhD Symposium | 2027 |
| * | "Towards a Measure of Individual Fairness for Deep Learning"; | 2021 |
| | Amazon Science internal presentation (with advisor Dr. J. Near) | |
| * | "Creating an end to end participatory data survey pipeline with | 2020 |
| | variable constraints" (Data Economies and Governance MD4SG working group) | |
| * | "Towards a Measure of Individual Fairness for Deep Learning"; | 2020 |
| | Short Presentation given for UVM/CS++ Research Day (20 min talk) | |
| * | "Personalized Robotic Control using MISL" | 2019 |
| | for UVM/CS++ Research Day (20 min talk) | |
| | | |
| | ARCH AWARDS | |
| * | Outstanding Poster Award for Brilliant Idea Category, "Towards a Measure of Audi | = |
| OTUE | Fairness for Deep Learning", Mediterranean Machine Learning Summer School (| 2021) |
| | R PRESENTATIONS Provin University SUMS Metho and Illusion; exhibited a freetal inspired non-up b | ook (2021) |
| * | Brown University <u>SUMS</u> , Maths and Illusion: exhibited a fractal-inspired pop-up be | OOK (2021) |
| MERIT | T-BASED MENTORSHIPS / RESEARCH MENTORSHIPS | |
| Mente | e, Google's CS Research Mentorship Program (CSRMP) with Dr. A. Lees | 2021 |
| | e, Global Outreach Mentorship with Dr. S. Gupta (EC 2020) | 2020 |
| | a Letin V in Al Decembra Montage on Mantage big with Dr. J. Bergins (ICAN 2000) | 0000 |

Mentee, LatinX in AI Research Workshop Mentorship with Dr. J. Barajas (ICML 2020)

| MERIT-BASED MENTORSHIPS / RESEARCH MENTORSHIPS | |
|--|------|
| Mentee, Mentored by Dr. Amal Ahmed, (ICFP 2020) | 2020 |
| Mentee, Lighthouse3 AI Ethics Mentoring Externship with F. McEvoy (1 of 20 chosen) | 2020 |
| Mentee, Code2040 Fellowship with Dr. Ben Waber | 2020 |
| , | |
| MERIT-BASED GRANTS / SCHOLARSHIPS | |
| Kernel Fellowship Block III via Gitcoin (Security and Grassroots Economics Daos) | 2021 |
| Gitcoin Scholarship for Women (for Kernel Fellowship Block III) | 2021 |
| TechX Social Impact / Harvard Franklin Fellowship (1 of 12) | 2020 |
| USENIX Enigma Grant | 2021 |
| Nominee, Microsoft Ada Lovelace Fellowship (1 of 2) | 2020 |
| Participant, Algorithmic Game Theory Mentoring Workshop (AMW) | 2020 |
| (co-located with EC 2020) | |
| WiML ICML Travel Funding Grant (sponsor QuantumBlack) | 2020 |
| ALife Student Scholarship Recipient (to attend ALife Conference) | 2020 |
| BRAID Funding to attend Grace Hopper Conference (courtesy of UVM) | 2020 |
| Udacity's Machine Learning Scholarship for Microsoft Azure | 2020 |
| NCWIT Change Leader Scholar (1 of 30) | 2020 |
| NCWIT Collegiate Award Finalist (1 of 85) | 2019 |
| Code2040 2020 Fellow (1 of 80) | 2019 |
| WiCyS Student Scholarship (Women in Cybersecurity) | 2019 |
| Udacity Technology Scholarship (Al track): Intro to Deep Learning with Pytorch | 2019 |
| Helium Grant (chosen as 1 of 11 out of 700) | 2018 |
| EaRl Career Scholarship, (R Data Science Scholarship) - declined offer | 2018 |
| Udacity Bertelsmann Data Science Scholarship - declined offer | 2017 |
| AT and T Aspire to Tech grant Winner | 2017 |
| NCAS Workshop participant (NASA Community College Aerospace Scholars) | 2016 |
| Who's Who/ Peggy Williams Memorial Scholarship/ Best BFA Award (Best of Major) | 2008 |
| OTHER CRANTS/FELLOWEIJES | |
| OTHER GRANTS/ FELLOWSHIPS 4th Annual ZK-Proof Workshop (complimentary ticket) | 2021 |
| Grace Hopper Conference | 2020 |
| NCWIT/Bloomberg GHC Conference Grant | 2020 |
| Women of Color in Technology Complimentary Registration | 2020 |
| Financial Aid Grant, SciPy (Scientific Computing with Python) | 2020 |
| MSRI SACNAS Grant | 2020 |
| LXAI+BAI@GTC Nvidia Digital DLI Workshop Scholarship Award for DLI workshop | 2020 |
| | 2020 |
| "Applications of AI for Anomaly Detection [LDLIW2249] (Deep Learning Institute at GTC) | 2020 |
| ICERM (Brown University) Variable Precision in Mathematical & Scientific Thinking | |
| RWC2020 (Real World Crypto: registration, flight, lodging) Grant via IACR | 2020 |
| CRA-WP Grad Cohort for Women (covers registration: remote) | 2021 |
| CRA-WP Grad Cohort for Women (covers flight, registration, lodging) | 2019 |
| CRA-WP Grad Cohort for Underrepresented Minorities (flight, registration, lodging) | 2019 |
| Neurips Conference Travel Grant (includes free registration) | 2019 |
| Sage-Days-104 : To work on SageMath Software: Arithmetic Dynamics | 2019 |

OTHER GRANTS/ FELLOWSHIPS

| OTHER GRANTS/ FELLOWSHIPS | |
|---|----------------|
| Simons Institute (Berkeley) Error-Correcting Codes and High-Dimensional | 2019 |
| Expansion Boot Camp (attendee) | |
| ICERM (Brown University) Encrypted Search Workshop Grant (Lodging provided) | 2019 |
| Cornell Number Theory Conference Grant (Lodging provided) | 2019 |
| NASA L'Space NPWEE Concept Proposal writing programme participant | 2019 |
| NASA L'Space Proposal/Review Academy (patentable research proposal for funding) | 2019 |
| NASA L'Space Academy (virtual team & mentorship with NASA scientists Level 1) | 2019 |
| MSRI (Mathematical Sciences Research Institute) Grants to attend: | |
| Optimal Transport and applications to machine learning and statistics | 2020 |
| Connections for Women: | 2019 |
| Derived Algebraic Geometry, Birational Geometry and Moduli Spaces workshop Introductory Workshop: Derived Algebraic Geometry and Birational Geometry | |
| And Moduli Spaces | 0040 0040 |
| Racket Summer School (National Science Foundation Grant) | 2018-2019 |
| PLMW (Programming Languages Mentorship Workshop) | 2018 |
| ICFP (International Conference Functional Programming) | |
| PLMW(Programming Languages Mentorship Workshop) | 2018 |
| PLDI (Programming Languages Design and Implementation) | |
| OPLSS (Oregon Programming Languages Summer School Grant) - declined offer | 2018 |
| ACADEMIC REVIEWER | |
| Reviewer, Springer AI and Ethics Journal | 2020 - present |
| Reviewer, BlackAIR Summer Research Grant Program | 2021 |
| Reviewer, ICLR Distributed and Private Machine Learning workshop | 2021 |
| Committee Reviewer, HCI Track, GHC (Grace Hopper Conference) | 2021 |
| Reviewer, PML4DC (Practical ML for Developing Countries) workshop, ICLR | 2021 |
| Reviewer, Tapia Conference (Panels and Workshops) | 2021 |
| Reviewer for AFCI workshop at NeurIPS (Fairness and Accountability) | 2020 |
| Reviewer for Black in AI at NeurIPS workshop | 2020 |
| Reviewer and Programme Committee Member, LXAI@ICML Workshop | 2020 |
| Committee Reviewer, HCI Track, GHC (Grace Hopper Conference) | 2020 |
| Chair Reviewer, PML4DC (Practical ML for Developing Countries) workshop, ICLR | 2020 |
| Reviewer, Tapia Conference (Panels and Workshops) | 2020 |
| Reviewer, Travel Grant Applications, Black in AI for AAAI | 2020 |
| Reviewer, Travel Grant Applications, Clojure Conj (2 rounds) | 2017 |
| ACADEMIC SERVICE (Al/Machine Learning) | |
| Co-chair, ICLR Diversity, Equity and Inclusion | 2022 |
| Privacy Enhancing Technologies Symposium, Student Co-Organizer | 2021 |
| Black in Al Logistics Co-Chair (NeurIPS) | 2020 |
| WiML Senior Program and Mentorship Co-Chair, WiML (NeurIPS) | 2020 |
| Committee Member, Zoom Infrastructure, EMNLP | 2020 |
| Session Facilitator, ICML 2020 for "Recommender System Research in Industry" (1 of 2) | 2020 |
| Volunteer ACL (Association of Computational Linguistics) | |
| | 2020 |

| ACADEMIC SERVICE (Al/Machine Learning) | |
|---|--------------|
| Volunteer, ICML 2020 (International Conference on Machine Learning) | 2020 |
| Volunteer, EC'20 (Economics and Computation) | 2020 |
| Volunteer, ICLR (International Conference on Learning Representations) | 2020 |
| Member, MD4SG (Mechanism Design for Social Good); Education working group | 2020 |
| Member, MD4SG Data and Governance working group | 2020 |
| Chair, AAAI Black in AI Annual Lunch | 2020 |
| Panelist, AAAI Try AI Workshop | 2020 |
| Invited Panelist, CRAFT workshop, FAT* conference (declined offer) | 2020 |
| ACADEMIC JOURNALS (Al/Machine Learning) | |
| Board Member, AI and Ethics, Springer | 2020 |
| ACADEMIC SERVICE (Other) | |
| Panelist, PhD recruiting event (included multiple schools, sponsored by CodePath) | 2020 |
| Student Volunteer, ICFP (International Conference Functional Programming) | 2020 |
| Student volunteer, ICFP (International Conference Functional Programming) | 2018 |
| Student volunteer, PLDI (Programming Languages Design and Implementation) | 2018 |
| Student volunteer, POPL (Principles of Programming Languages) | 2018 |
| Student volunteer, SPLASH | 2018 |
| (Systems, Programming, Languages, and Applications) (declined offer) | |
| ACADEMIC ASSOCIATION FOR COMPUTING MACHINERY (ACM) MEMBERSHII | PS |
| SIGecom Special Interest Group on Economics and Computation | 2020-present |
| Student Member, International Association of Cryptologic Research (IACR) | 2020-present |
| NON-ACADEMIC SERVICE | |
| Invited Judge, Technovation, AI for Good | 2021 |
| Participant, Git Contributors Inclusion Summit | 2020 |
| Reviewer, Code2040 Application Essays | 2020 |
| Reviewer, OpenMined Differential Privacy articles | 2020 |
| Judge, DataKind, Data.org, Inclusive Growth and Recovery Challenge | 2020 |
| Google Developer Student Club Lead (for University of Vermont) | 2019 |
| GRANT WRITING / PROPOSALS | |
| CDS&E Computational and Data-Enabled Science and Engineering | 2020 |
| Database Grant Proposal for SageMaths (as Key Personnel) (PI Ben Hutz) | |
| WRITING / PUBLICATIONS / POSTS | |
| Contributor, Wikipedia: WikiProject Women in Red/Al Ethics | 2020 |
| Tech X Social Impact "Impossible Markets and Big Dreams: My interaction with the | 2020 |
| COO of Impossible Foods" | |
| | 0000 |
| Tech X Social Impact "Ready! Start: Exploring the Virtual Healthcare Multiverse" | 2020 |

RESEARCH PhD INVITATIONS

| Participant, Nordic Probabilistic Artificial Intelligence School 2021: ProbAl | 2021 |
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| Participant, Doctoral Consortium, <u>ACM FAccT</u> : | 2021 |
| (ACM Conference on Fairness, Accountability and Transparency) | |
| Participant, CRAFT workshop at ACM FAccT | 2021 |
| - Inspecting algorithms ins social media platforms | |
| - Rethinking Demographic Data Infrastructures for Algorithmic Fairness | |
| Participant, CHIMe CHI Mentoring Workshop Symposium | 2021 |
| Participant, Mediterranean Machine Learning Summer School (M2L) (Winter cohort) | 2021 |
| Participant, Isogeny-Based Cryptography Winter School | 2021 |
| Participant, Summer Institute in Computational Social Science (SICSS) | 2021 |
| • | 2021 |
| Howard-Mathematica (declined) | 2024 |
| Participant, Winter Institute in Computational Social Science (WICSS) | 2021 |
| Invited Participant, "Society-centric approaches to AI challenges in | 2021 |
| Cybersecurity", The Alan Turing Institute | |
| Invited Participant, "Environmental Enables for AI challenges in | 2021 |
| Cybersecurity", The Alan Turing Institute | |
| Participant, Self Organizing Conference on Machine Learning (SOCML) | 2021 |
| - Machine Learning, and Privacy session, Moderated by U. Erlingsson | 2021 |
| - organized by I. Goodfellow (1 of 9 chosen) | |
| Simons Institute, Innovations in Theoretical Computer Science (<u>ITCS</u>) | 2021 |
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| INDUSTRY PhD INVITATIONS | |
| Participant, Jane Street PhD Symposium (New York, remote) | 2021 |
| , , , , , , , , , , , , , , , , , , , | |
| Participant, JP Morgan, Advancing Black Pathways in Data Science | 2021 |
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| Participant, JP Morgan, Advancing Black Pathways in Data Science Participant, TwoSigma Mock Interview Day for Early Career Women in STEM | 2021 |
| Participant, JP Morgan, Advancing Black Pathways in Data Science Participant, TwoSigma Mock Interview Day for Early Career Women in STEM Participant, Adobe, "The Future of Creativity" (Virtual) | 2021 2021 2020 |
| Participant, JP Morgan, Advancing Black Pathways in Data Science Participant, TwoSigma Mock Interview Day for Early Career Women in STEM Participant, Adobe, "The Future of Creativity" (Virtual) Participant, Microsoft Research, Frontiers in Machine Learning (Redmond, remote) | 2021 2021 2020 2020 |
| Participant, JP Morgan, Advancing Black Pathways in Data Science Participant, TwoSigma Mock Interview Day for Early Career Women in STEM Participant, Adobe, "The Future of Creativity" (Virtual) Participant, Microsoft Research, Frontiers in Machine Learning (Redmond, remote) Participant, Discover Bloomberg: Women in Engineering event (New York, remote) | 2021 2021 2020 2020 2020 |
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INDUSTRY TALKS

| INDUSTRY TALKS | |
|---|--------------|
| Interviewed for OpenMined course (Privacy-Preserving Machine Learning and Fairness) | 2020 |
| Interviewed for YouTube Series, Tech Girl Thursdays | 2020 |
| Interviewed for Podcast, Women of Silicon Valley | 2020 |
| Invited Panelist, Career Girls AI Virtual Camp | 2020 |
| Invited Speaker, Autodesk Design (Boston Office) on Differential Privacy | 2020 |
| Interviewed for Podcast on Black in AI (1 of 2 persons), iPhone Life Interview | 2020 |
| Invited Speaker, Sister to Sister International, Inc (STSI) on AI, Privacy, Ethics | 2020 |
| Invited Panelist, Morehouse@Momentum Coding School, "The Data Don't Lie" | 2020 |
| Invited Guest, Corecursive Podcast (Technical Podcast) | 2020 |
| Featured Session Clip, End of Year Corecursive Podcast (Technical Podcast) | 2020 |
| Women in Data Science talk "Why conferences matter" (40 min NeurIPS inspired talk) | 2020 |
| "Magic Gnomes: A GHC Compiler talk (5-minute talk at Github for Sentry's Show & Tell) | 2019 |
| "Denotational Semantics" (2 minute Lightning Talk for Meetup group) | 2018 |
| "Recap of Google I/O 2018" (20 minute presentation at Google Developer Group LA) | 2018 |
| Wendy's Subway, Invited Guest, Audiobook, "Turn Illness into a Weapon" | 2021 |
| | |
| OTHER (NON-INDUSTRY) TALKS | |
| MIT Hacking Racism in Healthcare Challenge (keynote speaker) | 2020 |
| PLAID Lab speaker, "What Scientists can learn from Artists" | 2020 |
| PLAID Lab Speaker, "Information Theory: from Spacecraft to Blockchain" | 2021 |
| CS Crew Project talk : contributing to Maths software (CodeWorld, SageMaths) | 2019 |
| CS Crew GSoC talk (40-minute talk about Google Summer of Code and Internships) | 2019 |
| CS293 Technical Interviewing Workshop Talk | 2019 |
| | |
| CLASSES (PhD) | |
| Doctoral Research with advisor Joe Near | 2021-present |
| Information Theory, taught by Jeff Frolik (Fall) | 2021 |
| Abstract Algebra I taught by Puck Rombach (Fall) | 2021 |
| Privacy, Law and Policy, taught by Ryan Kriger (Spring) | 2021 |
| (Post-quantum) Cryptography, taught by Christelle Vincent (Spring) | 2021 |
| Secure Distributed Computation; taught by Joe Near using Python (Fall) | 2020 |
| Machine Learning; taught by Safwan Wshah using Python (Spring) | 2020 |
| Doctoral Research with advisors Joe Near and David Darais (Spring, Fall) | 2019-2020 |
| Software Verification; taught by David Darais using Agda (Fall) | 2019 |
| Data Privacy; taught by Joe Near using Python (Fall) | 2019 |
| Computer Human Interaction; taught by Josh Bongard (Fall) | 2019 |
| | |

CLASSES (AUDIT)

Stanford EE 374: Internet-Scale Consensus in the Blockchain Era

2021

- Taught by Dr. David Tse through Stanford University
- Audited class, scribed for Lecture 11, Spring 2021

CLASSES (RELATED)

| Participant (1 of 18), "Dark Matters", School for Poetic Computation | 2020 |
|---|-------|
| (taught by American Artist: workshop on Surveillance, data, ethics, history of Silicon Va | lley; |
| guests included Dr. Simone Browne, Stephanie Dinkins and Rashida Richardson) | |
| Stanford ICME Summer NLP in Deep Learning Workshop | 2020 |
| Participant, IBM Qiskit Global Quantum Computing Summer School | 2020 |
| Participant, PL+HCI Swimmer Summer School | 2020 |
| (Programming Languages + Human Computer Interaction) | |
| Participant, MSRI, Decidability, Definability and Computability in Number Theory | 2020 |
| | |

DeepLearning.ai 2020-2021

- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter Regularization and Optimization
- Structuring Machine Learning Projects
- Natural Language Processing Specialization
- Cryptography I
- Cryptography: Boolean Functions, S-boxes and Related Problems

Hyperlink Academy 2020-2021

- Design Neighborhood Scale Software (Ostromian economics and computing)
- Digital Alchemy (digital file formats, data manipulation)
- Artificial World Building (genetic algorithms, reinforcement learning, cellular automata)
- Esoteric Programming Language Theory (Graphical to Impossible programming languages)
- Language Construction Workshop (Conlang: Linguistics / made a language) (C. Gorrie)
- The Book is a Program 0 (Publishing a book in Racket) (J. Dueck)
- GUIs through Art History 0 (Recreating Periods of Art in History using GUIs) (E. Lin)

InterAccess

| - | Parametric Thinking with Images (Grasshopper3D) | 2020 |
|---|---|------|
|---|---|------|

Generating Images with Shaders (GLSL)

R Orange County Book Club (6 weeks Mastering Spark with R) 2021

R Orange County Book Club (6 weeks Text Mining with R)

- Presented Chapters 10 and 11 (Distributed R, Extensions in Spark using R)
- Presented Chapter 7 (Twitter data Case Study in Text Mining with R)
- Presented R code exercises relevant to assigned chapters

R Data Hackathon 2021, First Place, "Cast and Gender Roles in Movie Data" 2021

Our group won First place at the R Data Hackathon 2021 for Best Visualization

R Orange County Workshops

2021

- Modeling Normally Distributed Data with Repeated Measures (February)
- Transforming Data into Dashboards with Tableau (March)
- R Virtual Science Hackathon (April) (project-based)

| ONLINE LEARNING (SELECTED) R Nimble virtual short course (C. Paciorek) - Basic concepts on converting BUGS and JAGS models - MCMC sampling, model components for Bayesian non-parametric distributions | 2021 |
|---|----------------------|
| University of Vanderbilt Regression Modeling Strategies Short Course - Four day course on regression modeling and causal models - Linear models, logistic and ordinal regression (F. Harrell, Jr., PhD, D. Levy, PhD) | 2021 |
| Brown University Applied Mathematics - Contributed Artwork to SUMS on Mathematics and Illusion - (SUMS: Symposium for Undergraduates in Mathematical Sciences) | 2021 |
| Gray Area Festival Workshops - Conceptual Cartography with Mapbox - Data Visualization: Theory to Practice | 2020 |
| Pioneer Works - Data Visualization as Activism (S. Lavigne) - Feminist Data Set (with C. Sinders) - AI + Creativity (A. Miller, D. Geers and A. Dorsen) | 2020 |
| FutureLearn - "Empire: The Controversies of British Imperialism" - The Laws of Digital Data, Content and Artificial Intelligence - "Functional Programming in Haskell" | 2020 2020 2017 |
| Wendy's Subway Rea Tajiri's workshop on Archival Practices - Speculative Imaginings Reading workshop with Che Gossett on Abolitionist Insurgencies (led by C. Gossett, with lecture guest F. Moten) Unsettling Historical Common Sense | 2021 2020 |
| The Improv Group - Storytelling for Technologists | 2020 |
| D&I (Diversity and Inclusion) Invitations (Academic Conferences): KDD 2020 D&I Grant (free registration) ECCV 2020 (free registration courtesy Google Research) | 2020 2020 |

Developer Conference Grant/ Scholarship Invitations (Non-Academic Conferences):

AppSec (LA) 2019, TechTogetherBoston 2020, Twilio's Signal Conf 2019, Curry On! 2019, RustConf 2018, LambdaConf 2017/2018, Strange Loop 2017, Software Craftsmanship North America (SCNA), Clojure Conj 2016/2017, Clojure West 2017, Chrome Dev Summit 16-18, Google IO 2016-2019