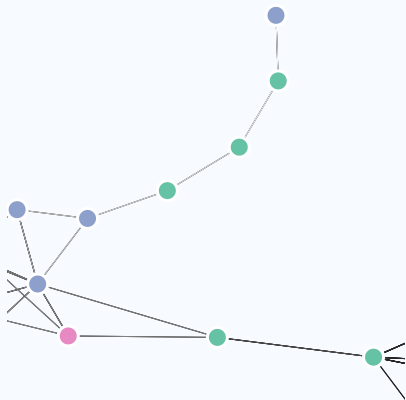# CHRISTOPHER J. HAID

As a data science and AI leader, I excel in spearheading cross-functional initiatives and nurturing high-performing analytical teams. At IDEA Public Schools, my leadership in integrating machine learning and large language processing tools has significantly enhanced data-driven decision-making and operational efficiency. I am adept at developing talent, fostering innovation, and aligning team efforts with organizational goals. My expertise in deploying comprehensive analytics frameworks drives growth and performance, marking me as a transformative leader in the data science domain.
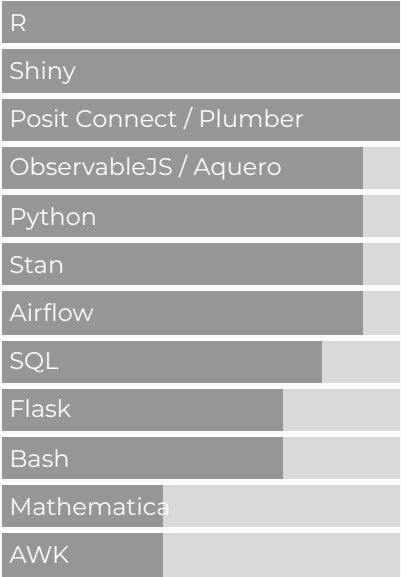
💼 PROFESSIONAL EXPERIENCE

Current
|
2023

Senior Vice President of Research and Analytics
IDEA Public Schools

📍 Weslaco, TX (remote)

- Leads 11 person research and analytics team conducing research and development, evaluation, analysis, data product development, organizational improvement initiatives, and network growth strategy for charter school management organization supporting 143 schools in Texas, Louisiana, Florida, and Ohio that educate 85,000 students from grades K-12. One year staff retention of 100%; three year retention 85%.
- Created large-scale survey strategy, creating savings of $200K+ by insourcing surveys. Strategy includes a stratified, cluster-sampled monthly staff surveys (adjusted post-survey via multilevel regression and poststratification) and an annual all-staff survey of 10,000+ respondents. Other surveys include annual teacher, family, and student surveys.
- Designed proof of concept for using large language models (LLMs) from OpenAI (GTP-3.5 Turbo and GPT-4) to summarize and query open-ended responses from 10,000+ respondents on annual staff experience survey.
- Guided the development of a GIS application providing spatial analysis of public, commercial, and internal data to assess school location suitability, resulting $35M reduction in misallocated spending. Additionally, managed the redesign of growth strategy and go/no-go process of new sites and regions, coordinating the efforts of the External Affairs, Operations, Finance, and R&A teams.
- Create a system monitoring tool that aggregates and reports time-series data across all school units on multiple performance metrics and detects anomaly via an encoder-decoder algorithm.
- Lead org-wide service model initiative for all headquarters teams, including design of and standard setting of service catalog and professional development for all chief areas.
- Developed reporting process, including automated slide generation, that analyzes and visualizes staff retention data.
- Led creation of first day of school enrollment forecasting model, that leverages tree-based ensemble models (random forest, XGboost) to generate predictions and predictive intervals for each grade in all 143 schools; accurately identified 90% of schools likley to miss budget driving targets, allowing early adjustments by enrollment, and finance teams.
- Devised and led change management for overhaul of org-wide goal setting method, proving ambitions and attainable goals for all org units.

CONTACT

✉ chrishaid@gmail.com
🐦 @chrishaid
🐙 github.com/chrishaid
in linkedin.com/in/chrishaid

ANALYTICS STACK

R	
Shiny	
Posit Connect / Plumber	
ObservableJS / Aquero	
Python	
Stan	
Airflow	
SQL	
Flask	
Bash	
Mathematica	
AWK	

View this resume online with links at https://chrishaid.github.io/cv/
Last updated on 2023-11-27.

2023
|
2020

Vice President of Data Analytics

IDEA Public Schools

📍 Weslaco, TX (remote)

- Manages teams tasked with the rapid impact analyses focused on causal inference and predictive analytics, including evaluations of Pre-K effectiveness, scheduling impacts, the impact of at-home vs in-person learning environments; typical methods included regressions, random forest estimation, matching, regression discontinuity, as well as distributional tests.
- Leads and supports evaluations team tasked with multi-year program evaluations, including Charter School Program, Century 21 After School Program, Teacher and School Leader Improvement Program.
- Designed and delivered professional development to research and analysis team members on Shiny web applications, version control with git/GitHub, data project management best practices, Posit Connect publishing, ETL operations, and predictive data pipelines with the `tidymodels` framework.
- Implemented Qualtrics and Posit Connect to facilitate data collection, recurrent analysis, data applications, and automated report generation.
- Authored internal R packages that facilitate access to and exploration of IDEA's data warehouse, support use of brand-compliant colors with ggplot2 graphics, and standardized reports rendered as PDFs, Word documents, HTML web pages, and automated emails.
- Coordinates the cooperative authorship of the IDEA Research and Analysis Team Manual[7], which documents team tenets, best practices, and approaches for technical team members.
- Net Promoter Score of +90 for R&A services for 3+ years.

2020
|
2017

Chief of Staff

KIPP Chicago Schools

📍 Chicago, IL

- Led progress monitoring intiatives across the region, direclty leading to the growth from 2 to 8 campuses while achieving highest results of any network of schools within Chicago Public Schools (634 schools, of which 121 are charter schools). Additionally earned the longest charter renewal (7 years) ever awarded in Illinois.
- Supervise data science team that collects, stores, manages, and analyzes data across our region of 8 schools, 3,000 students, 1,000 alumni, and 325 teachers. Includes the design and implementation of predictive models, algorithms, interactive dashboards, memos, and reports.
- Manage all progress monitoring meetings with senior leadership team (Executive Director , C-level, and Board of Directors) and presentation and communication of our analyses to all of our stakeholders: students, teachers, parents, school leaders, regional officers, Chicago Public Schools, board of directors, and donors.
- Responsible for external relationships with district leadership, other CMOs, the Mayor's Office, and other elected officials.
- Led "Red Team" analsysis and decision making framework to approve successful launch of KIPP Detroit Schools.

Founder & Data Scientist

Numbersense

 Chicago, IL

· Effectiveness evaluations of charter school and network performance for lenders to charter school management organizations.
· Development of R package to access and analyze NJ Department of Education data on school performance and demographics[2].

2020 | 2015

Chief Information Officer

KIPP Chicago Schools

 Chicago, IL

· Managed data science team that tripled in size.
· Coordinate technology selection, device management, and e-Rate procurement process.
· Managed selection, implementation, and integration of positive behavioral inntervention and supports platform (DeansList) for 8 schools serving 2,000 students, leading to 130% reduction in out-of-school and in-school suspensions year-over-year.
· Managed transition for gradebooks and report cards from PowerSchool to Illuminte for 8 schools.

2017

Director of Research & Analysis

KIPP Chicago Schools

 Chicago, IL

· Collection, management, and analysis of data across our region of 4 schools, 1,200 students and 100 teachers.
· Responsible for the presentation and communication of our analyses to all of our stakeholders: students, teachers, parents, school leaders, regional officers, Chicago Public Schools, and donors.
· Encourage inquisitiveness by creating thoughtful visualizations and rigorous analyses of any and all data.

2016 | 2012

Consultant

Professionalink & John Hancock

 Washington, DC & Boston, MA

· Special Projects for CEO and CFO of John Hancock Financial Services.
· Root cause analysis and solution design for Long-Term Care application process that led to a 200% reduction in time to underwrite.
· Performed opporutunity and savings analysis for potential large merger for insurance companies.

2003 | 2002

Product Planner

The Adrenaline Group

 Washington, DC

· Project lead on web application using AI to underwrite subprime home loans. Responsible for product design, roadmap, and milestone delivery.
· Project lead on case analyzing surveillance system monitoring the NASDAQ exchange .
· Project lead for team tasked with analyzing a large mortgage lenders data infrastructure and software stack for supporting underwriting activities.

2002 | 2000

2000
|
1997

Senior Consultant
Arthur Andersen LLP   📍 Washington, DC

· Analysis of intangible liabilities for Fortune 500 healthcare company.
· Devised and implemented algorithm for setting hotel and meal per diem rates for the General Services Administration.

🖥 RESEARCH EXPERIENCE

2011
|
2010

Research Fellow
Alexander Hamilton Center for Political Economy
                                     📍 New York University

· Independently analyzed and constructed statistical models for large data sets pertaining to carbon decomposition rates.
· Taught courses on globalization and political violence to both undergraduate and graduate students.

2010
|
2009

Research Fellow
Program on Order, Conflict, and Violence   📍 Yale University

· Researched the origins of electoral violence
· Devised new methods for studying the network effects of violence on voter behavior.

2009
|
2007

Research Associate
Caribbean Policy Research Institute   📍 Kingston, Jamaica

· Researched archival, qualitative history and conducted observations and interviews of grassroots politics and election violence in Kingston, Jamaica.

👥 TEACHING EXPERIENCE

2012
|
2011

Preceptor
Master of Arts Program in the Social Sciences   📍 University of Chicago

· Teaching social science theory, coordinating graduate seminar, and supervising graduate student theses.

2011
|
2010

Research Fellow
Alexander Hamilton Center for Political Economy
                                     📍 New York University

· Teaching courses on globalization and political violence to both undergraduate and graduate students.

I have worked in a variety of roles ranging from consultant to data scientist to the C-Suite. I love collaborative environments where I can engage with my peers in solving seemingly intractable problems and where growth and innovation are encouraged.

My appoach to teaching and professional development is to equip students and colleagues with access to the most innovated analytical approaches to solving difficult problems in organizational design, school management, academic outcomes, policy making, and program evaluation, focusing on predictive analytics, visualization, and causal identification.

🎓 EDUCATION

2012
|
2005
ABD, Political Science (Quantitative Methods & Comparative Politics)
University of Chicago   📍 Chicago, IL

· Focused on the the uses and consequences of violence during elections, including fieldwork in Kingston, Jamaica.
· Methods included applied game theory, network flow models, spatial estimation, multilevel models, Bayesian estimation, and agent-based models.

2007
|
2005
MA, Political Science
University of Chicago   📍 Chicago, IL

2005
|
2003
MPP
University of Chicago   📍 Chicago, IL

· Graduated with Honors
· Thesis: Agent Based Simulation of Violence in Electoral Competitions

1998
|
1994
BA, Economics
The College of William & Mary   📍 Williamsburg, VA

· Thesis: An Economic History of the Second Bank of the United States

📰 SELECTED PRESS (ABOUT)

2018
#WeAreChicago: Chris Haid[3]
A Better Chicago

🔗 LINKS

1: https://bit.ly/3KLZDUK
2: https://github.com/almartin82/njschooldata
3: https://www.abetterchicago.org/blog/wearechicago-chris-haid