

# Ibrahim Alabduhmohsin

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<https://ibomohsin.github.io/>  
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I am a research scientist at Google Brain, developing tools for understanding deep learning and improving its societal impact, particularly relating to fairness. Previously, I founded and led the Advanced Analytics team at Saudi Aramco, managed the company's Enterprise Analytics program, and was a technical lead at its digital transformation program.

## EDUCATION

### Doctor of Philosophy - PhD, Computer Science, KAUST, GPA: 4.0 / 4.0

Thesis title: "Learning via Query Synthesis." Committee: X. Zhang, X. Gao, D. Keyes (KAUST), and W. Wang (UCLA). 2012 — 2017

### Master of Science, Electrical Engineering, Stanford University, GPA: 4.15 / 4.0

Emphasis on networked systems, artificial intelligence, and operations management. 2009 — 2011

### Bachelor of Science, Computer Engineering, University of Nebraska, Lincoln, GPA: 3.98 / 4.0

Highest Distinction; Superior Scholarship Award; Minor in Economics. 2000 — 2005

## SKILLS

**Research & Development** Authored 1 book, +25 research papers, 1 granted patent and 3 pending patents.

**Communication** English (fluent), Arabic (native), German (elementary, A1).

**Technical** Data science, artificial intelligence, modeling & optimization, digital transformation, networked systems (certified by Cisco, Juniper and Alcatel-Lucent).

**Leadership** +2 years managing corporate-wide enterprise analytics program, leading the data science team, and serving as a technical lead at the digital transformation program at Saudi Aramco.

## SELECTED ACTIVITIES

Program committee member at [NeurIPS](#), [ICML](#), [ICLR](#), [AAAI](#), and [IJCAI](#). 2017 — Present

Reviewer for [TMLR](#), [IEEE PAMI](#), [IEEE TNNLS](#), and [IEEE Communications Letters](#). 2019 — Present

Member of the [S20 Task Force](#) (Digital Revolution). 2020

Chair of AI track of the 2019 [Arab-American Frontiers Symposium](#). 2019

## PROFESSIONAL EXPERIENCE

### RESEARCH & DEVELOPMENT SCIENTIST

NOV 2019 — Present

*Google, Brain Team*

*Zürich, Switzerland*

- Led / co-led several projects to improve understanding of deep learning and improve ML fairness; e.g. pretraining with random labels, debiasing neural networks, debiasing multiclass datasets, data scaling laws, reinitialization and calibration.
- Key member of a moonshot team for machine learning fairness in healthcare.
- Member of the Google Scholarship review team and mentor of AI residents.

### LEAD, ADVANCED ANALYTICS

NOV 2017 — OCT 2019

*Saudi Aramco, Corporate Applications Dept*

*Dhahran, Saudi Arabia*

- Founded and led the Advanced Analytics team that was responsible for developing AI solutions, managing analytics infrastructures, conducting research collaboration with academia, evaluating technologies, and developing roadmaps.
- Technical lead at the Digital Transformation Program, with a mission to accelerate the adoption of artificial intelligence at the company.
- Led the design & implementation of several ML applications in sectors such as downstream, supply chain, sales & marketing, IT, cybersecurity and HR.

### NETWORK PERFORMANCE ENGINEER

JUN 2011 — AUG 2012

*Saudi Aramco, Comm. Eng. Department*

*Dhahran, Saudi Arabia*

- Won the Operation Services Business Line recognition award (2012) for "distinguished achievements."
- Performance management and capacity planning for enterprise communications services such as the Data Center, the Internet, Extranet, and Wireless LAN infrastructures.
- Developed an analytics tool for automated performance analysis and SLA compliance assessment.

### DATA NETWORK ENGINEER

JUL 2005 — AUG 2009

*Saudi Aramco, Comm. Eng. Department*

*Dhahran, Saudi Arabia*

- Won the Information Technology Admin Area recognition award (2007) for "developing innovative solutions" and the Communications Eng Dept recognition award (2009) for "significant contributions to department's success."
- Key member of an 18-month IT network security project for securing critical facilities.
- Project manager for a 1-year CCTV surveillance camera systems project (involving civil and communications work).
- Design, installation, configuration, reviews, upgrades, and troubleshooting of data networks.