Kamila Bekshentayeva

OPEN FOR DESIGN TECHNOLOGY/IT/COMPUTER SCIENCE TEACHING POSITION; FORMER: SENIOR LECTURER, RESEARCH AND TEACHING ASSISTANT, DATA SCIENTIST, AI MENTOR

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Education

Moreland University

PGCE (TEACH-NOW TEACHER PREPARATION CERTIFICATE PROGRAM), USA TEACHING LICENSE GPA: 4.00/4.00 November 2023 - expected June 2024 Course work and projects with a focus on culture of schooling, learning in a digital age, managing the learning environment, data driven instruction, role of families and technology for climate and culture of learning environment

Simon Fraser University

M. A. SC. IN ENGINEERING SCIENCE (MACHINE LEARNING, BIG DATA, COMMUNICATION NETWORKS), GPA: 4.20/4.33 Teaching Assistant, Research Assistant

Pennsylvania State University

- B. Sc. IN ELECTRICAL ENGINEERING, GPA: 3.38/4.00
- Boston University, Center of English Language and Orientation Program, Boston, MA May 2010 February 2011
- National University of Singapore, Singapore, Singapore Semester Abroad Spring 2014

Certifications and Trainings _____

- **IB MYP Design cat. 1**, virtual February 2024
- Design and Technology Association (UK) Approved Health and Safety Training Course Certification, Beijing 2024-2029
- Google Agile project management, September 2023
- Mastercard Cybersecurity Virtual Experience program, Summer 2023
- KPMG Data Analytics Consulting Virtual Internship, Summer 2023
- Udemy: Spark and Python for Big Data with PySpark, Udemy: SQL MySQL for Data Analytics and Business Intelligence

Teaching and Mentorship Experience

Canadian International School of Beijing

PLACEMENT TEACHING

- Under Moreland Teacher Preparation Certificate Program I am co-teaching Design Technology course to MYP, DP students (grades 9 12)
- Ensuring student-centered, dynamic and innovative teaching approach.
- Preparing lectures and activities based on MYP design cycle, DP SL and HL topics.
- Facilitating projects: educational toy, clock with brand identity (autocad, laser cutting), sustainable housing, design using recycled material.
- Valuing collaboration with colleagues to innovate, create, and refine, as well as embracing communication with all stakeholders.
- Contributing to the holistic (interdisciplinary) IB vision by supporting students in and outside of classroom.

The Embassy of the Republic of Kazakhstan to the People's Republic of China

TECHNOLOGY AND PROFESSIONAL DEVELOPMENT TEACHING SPECIALIST

• Information technology, Design Thinking, and Technical Writing courses

Astana IT University

SENIOR LECTURER

- Design and Technology, Design Thinking, Introduction to Information Technologies, Cybersecurity; Information Security Fundamentals: designed curriculum, delivered lectures (200 students) and laboratory classes (each group: 25 students), evaluated students' performance; online and offline format.
- As a 21st century educator, considering technology as a foundation for instruction to engage students.
- Constantly monitoring and evaluating the effectiveness of my teaching, maintaining good standards of practice and ensuring progress.
- Participating in planning and departmental meetings.
- · After-school activities: Writing for publications (students learned how to prepare research papers for international conferences and journals, learned IEEE standards and citation style); Research tools (students learned how to use Overleaf (latex)); Career development (career orientation, students prepared CVs, cover letters)

Washington D.C., USA

Vancouver, BC, Canada

January 2019 - August 2021

State College, PA, USA

August 2011 - May 2015

Beijing, China

2023 - now

Nur-Sultan, KZ

Beijing, China

2021 - 2023

Simon Fraser University

TEACHING ASSISTANT

- Data Communication and Networking (under 100 students): Designed practice classes, graded assignments and exams
- Final year project course: Engineering Technology and Society, Process, Form, and Convention in Professional Genres (delivered lectures to four small groups (each group approx. 25 students), graded assignments.

USA Girl Scouts Overseas

STEM MASTER, CO-LEADER

- Facilitated troop meetings by guiding decision-making of hands-on activities appropriate to members' interests and abilities. Conducted all troop activities safely by adhering to GS Safety Activity Checkpoints and Volunteer Essentials procedures.
- Leading and designing STEM series meetings (the most recent meeting at Airbus Engineering Center at Shunyi: 80 girls)

AI4ALL: Invent the Future

PROGRAM MENTOR

• During the program, thirty 9-12 grades female students were immersed in AI through a combination of lectures, hands-on research projects, and mentoring activities facilitated by me and other co-mentor.

Technovation Challenge

GROUP MENTOR

 Mentored first-year undergraduate students who developed a smartphone application that aimed to decrease the suicide rate among Kazakhstani teens, awarded the 2nd place in the nation-wide competition.

Bastau English language summer camp

CAMP COUNSELOR

• Supervised campers (7-15 years old) ensuring their safety in the Alatau mountain area, and supporting their skill achievement and general wellbeing. Maintained a schedule for camp participants. Created English lesson plans and facilitated and taught classes; took part in organizations of daily events and activities.

Other Experience _____

The Embassy of the Republic of Kazakhstan to the People's Republic of China

TECHNICAL SPECIALIST

• Developing and maintaining WeChat application KazConsul that provides various consular services

Rvte Health

DATA SCIENTIST AND DATA ANALYST

- Using NLP algorithms (BERT), decision trees, neural networks, as well as large data extracted from PubMed, governmental, and user review data. The AI solutions aimed to connect patients with appropriate world expert physicians identified by their research, location, domain of expertise, procedures, reviews, etc.
- Providing project management assistance to the team, using Agile, DevOps; conducting cybersecurity trainings

Simon Fraser University

RESEARCH ASSISTANT

- Network Intrusion Detection using Machine Learning, network anomalies and Internet Routing data analysis
- Virtual Network Embedding in Data Center Networks, using C++ based VNE-sim tool and VNE algorithms

IBM

SALES MANAGEMENT AND LEAD OPERATIONS SPECIALIST, CIS AND RUSSIA MM

- · Coordinated weekly and monthly forecast process across CIS and Russia
- Participated in sales cadence, provided accurate information about the forecast numbers, key deals, pipeline, week-to-week changes, sales plays, monthly results

Samsung Engineering

OA ENGINEER

 Inspected civil and electrical works of subcontractors, was responsible requests for inspections, acts, non-conformance reports, quality observation reports

Recent Publications

Beijing, China

2023-2024

Vancouver, BC, Canada

Summer 2020

Astana, Kazakhstan

Winter 2018

Almaty, Kazakhstan

Summer 2011

Temporary project, summer 2022

Beijing, China

Toronto, ON

2021 - 2022

East Europe/Asia

Vancouver, BC, Canada

2016-2017

2019 - 2021

Almaty, Kazakhstan

2015-2016

Vancouver, BC, Canada

Melbourne, Australia networks, "in Proc. IEEE International Conference on Systems, Man, and Cybernetics October 2021 Applied echo state networks to detect known DoS and DDoS attacks • Used network intrusion datasets and collected border gateway protocol data for largest DDoS attacks in 2019-2020 to evaluate the echo state network models "A. L. Gonzalez Rios, K. Bekshentayeva, M. Singh, S. Haeri, and Lj. Trajkovic, "Virtual Network Embedding for Switch-Centric Data Center Networks," IEEE Int. Symp. Circuits Daegu-Gyeongju, South Korea and Systems May 2021 • Used D-ViNE, R-ViNE, GRC, GRC-M, Monte Carlo Tree Search based algorithms MaVEn-S and MaVEn-M • Compared the performance of algorithms with switch-centric DCN topologies based on acceptance ratio, resources utilization, revenue to cost ratio, and processing time A. L. Gonzalez Rios, Z. Li, K. Bekshentayeva, and Lj. Trajkovic, "Detection of denial of Seville, Spain service attacks in communication networks," IEEE Int. Symp. Circuits and Systems October 2020 • Employed CSE-CICIDS2018, CICIDS2017 data sets to create anomaly detection model using Broad Learning System • Evaluated the performance based on accuracy, F-score, and training time Skills Agile, Python, PySpark, Pandas, DevOps, Tableau, mySQL, Blockchain, Wireshark, ns3, Matlab, Linux environment, AWS Databricks Technical platform, Azure Synapse, Machine learning (NLP, regression, classification, clustering, decision trees, neural networks, normalization, regex), Research, Operations, &TFX

"K. Bekshentayeva and Lj. Trajkovic, "Detecting Denial of Service attacks using echo state

- Languages English (native-bilingual), Russian (native-bilingual), Chinese (beginner), Kazakh (intermediate), German (beginner)
- Teaching tools
 Student portfolio: Toddle, Class Dojo, Tapestry; Learning and course management: Moodle, Canvas, Angel; Collaboration tools:

 Miro, Jamboard, Padlet; Quizzes: Kahoot, Quizlet, EdPuzzle, Moodle
 USAGSO (leader), SCOLAR Beijing (Guest lecturer), Toastmasters (CC, CL), IEEE (past member, treasurer), Pennstate Global Programs
- **Organizations** (past ambassador), Pennstate Society of Women Engineers (past member), Tea Institute at Pennstate (officer)