

**BOLAT TLEUBAYEV**  
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## CAREER OBJECTIVE

Accomplished, persistent and energetic recent graduate looking for job opportunities in Software Development, Mobile Development, and Machine Learning fields. Resourceful and diligent, with outstanding communication skills. Currently working on my thesis on reconstruction of 3D models from 2D data at Medical Imaging Research Centre at KU Leuven

## EDUCATION

2014-2015      **Foundation in Math and Physics**, Nazarbayev University Centre for Preparatory Studies, Nur-Sultan, Kazakhstan  
2015-2019      **Bachelor of Science in Robotics and Mechatronics**, Nazarbayev University, Nur-Sultan, Kazakhstan  
2020-2021(expected) **Advanced Master of Artificial Intelligence**, KU Leuven, Leuven, Belgium

## WORK EXPERIENCE

2019 - 2020      **Research Assistant and Teaching Assistant**, Nazarbayev University Human-Robot Interaction Laboratory, Nur-Sultan, Kazakhstan

- Conducting a joint research with EPFL Chili Lab on CoWriter project aimed on detection and therapy of dysgraphia in children
- Development of interactive therapeutic software for Ubuntu-based tablets
- Collection and analysis of handwritten data from children
- Work as a Teaching Assistant on ROBT205 Signals and Sensing with Lab course

Spring 2019      **Intern at Computer Vision Department**, KazAeroSpace LLP, Nur-Sultan, Kazakhstan

- Participation in development of Unmanned Aerial Vehicle for geomagnetic scanning
- Development of a software for interactive 3D city planning model
- Implementation of Computer Vision algorithm for human detection

August 2018      **Intern at Information Systems Control department**, Subordinate organisation of President's Affairs Administration of the Republic of Kazakhstan JSC "Engineering and Technology Centre", Nur-Sultan, Kazakhstan

- Assisting in Information System Management
- Assisting with various organisational tasks of the department
- Analysing Information System based on given criteria

July 2018      **Intern at Human Resources department**, Korkem Telecom, Nur-Sultan, Kazakhstan

- Conducting selection of possible candidates for IT position according to specified parameters
- Helping in organisation of events aimed on Corporate Culture development
- Helping in development of an agenda for employee motivation

June 2017      **Workshop participant**, Tien-Shan Mountain Station of Physical Institute of the Russian Academy of Sciences, Almaty, Kazakhstan

- Attended lectures on Quantum and High Energy Physics
- Worked with "Horizon-T" Air Shower detection device
- Examined the principles of work of the "Horizon-T" for further research

## VOLUNTEERING

May 2016      **Manager of Liaison Officers**, Astana Economic Forum, Nur-Sultan, Kazakhstan

- Coordinating Liaison Officers assigned to VIP guests
- Managing VIP guests' documentation

## PUBLICATIONS

Tleubayev, B., Zhexenova, Z., Zhakenova, A., & Sandygulova, A. (2019, March). Robot-assisted therapy for children with ADHD and ASD: a pilot study. In *Proceedings of the 2019 2nd International Conference on Service Robotics Technologies* (pp. 58-62).

Sandygulova, A., Zhexenova, Z., Tleubayev, B., Nurakhmetova, A., Zhumabekova, D., Assylgali, I., ... & Zhakenova, A. "Interaction design and methodology of robot-assisted therapy for children with severe ASD and ADHD." *Paladyn, Journal of Behavioral Robotics* 10.1 (2019): 330-345.

Sandygulova, A., Johal, W., Zhexenova, Z., Tleubayev B., Zhanatkyzy A., Turarova A., Telisheva Z., ... & Dillenbourg P. "CoWriting Kazakh: Learning a New Script with a Robot" *ACM/IEEE International Conference on Human-Robot Interaction 2020*

Tleubayev, B., Zhexenova Z., Asselborn T., Johal W... & Sandygulova A. "CoWriting Kazakh: Learning a New Script with a Robot-Demonstration" *Companion of the 2020 ACM/IEEE International Conference on Human-Robot Interaction 2020*

Zhexenova Z., Tleubayev, B., Zhanatkyzy A., Turarova A., Telisheva Z ... & Sandygulova A. "CoWriting Kazakh: Learning a New Script with a Robot-Video" *Companion of the 2020 ACM/IEEE International Conference on Human-Robot Interaction 2020*

Zhexenova, Z., Amirova, A., Abdikarimova, M., Kudaibergenov, K., Baimakhan, N., Tleubayev, B., ... & Sandygulova, A. (2020). A Comparison of Social Robot to Tablet and Teacher in a New Script Learning Context. *Frontiers in Robotics and AI*, 7, 99.

Asselborn T., Johal W., Tleubayev B., Zhexenova Z., Dillenbourg P., McBride C., & Sandygulova A. "The transferability of handwriting skills: from the Cyrillic to the Latin alphabet." *Nature Partner Journal Science of Learning*

## CONFERENCES

- March 2019      **Presenter**, oral presentation "Robot-Assisted Therapy for Children with ADHD and ASD: a Pilot Study", International Conference on Service Robotics Technologies, Beijing, China
- March 2020      - The best presentation in "Intelligent Robot and Artificial Intelligence Technology" section
- Presenter**, video presentation "CoWriting Kazakh: Learning a New Script with a Robot-Demonstration", ACM/IEEE International Conference on Human-Robot Interaction 2020
- The best Demo Award - Reviewers Choice

## ADDITIONAL SKILLS AND ACHIEVEMENTS

- March 2021      **3rd place on Case Challenge**, Delaware Student Gameby delaware BeLux, Leuven, Belgium
- Development of Augmented Reality mobile applications using Swift programming language
- Development of pipeline for Computer Vision applications in manufacture
- Presenting the prototype in front of investors and experts in the field
- October 2020      **Startup Challenge Winner**, ABC Startup Challenge by NURIS, Nur-Sultan, Kazakhstan
- Development of a social networking iOS and Android mobile application using Flutter and Firebase
- Presenting the prototype in front of investors and experts in the field
- August 2018      **Forum participant, discussion group leader**, The 29th International Youth Forum: "The 4th Industrial Revolution with Youth: Life in the Future", Seoul and Goyang, South Korea
- Leading a "Big Data and Artificial Intelligence" discussion group
- Evaluating various technologies within the framework of Industry 4.0
- Presenting outcomes of discussions to other participants

## CERTIFICATES

- April 2018      Social and Behavioral Research from Collaborative Institutional Training Initiative (CITI Program), valid until April 2021

## LANGUAGES

Native: Russian, Kazakh

Full professional proficiency: English (IELTS 7.5/C1, TOEFL 101)

## TECHNICAL SKILLS

Programming languages: Python, Swift, Flutter, MATLAB/Octave CLI, Arduino C

## HOBBIES AND INTERESTS

I enjoy trainings in Mixed Martial Arts club because and have a keen interest in Ballroom Dances.

In my free time over the last year I learned Swift and Flutter programming languages and published two applications on the App Store. Most of my hobby projects are openly available on GitHub

- 2017 - 2019      **Club administrator, co-head**, Nazarbayev University Mixed Martial Arts Club
- December 2016    - Overall management and organisation of university-wide live broadcasts and events
- December 2014    - **Performer**, IX Winter Charity Ball, Nur-Sultan, Kazakhstan
- March 2014       - Participation in fundraising for inclusive education fund
- **Performer**, Ball of the First President, Nur-Sultan, Kazakhstan
- **Performer**, Charity Tulip Ball, Nur-Sultan, Kazakhstan
- Participation in fundraising for the fund of women in critical situations