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CAREER OBJECTIVE

Accomplished, persistent and energetic recent graduate looking for research and education opportunities in Machine Learning, Computer Vision, and Engineering fields. Resourceful and diligent, with outstanding communication skills.

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
- Relevant modules: Statistical Methods and Machine Learning, Image Processing, Human-Robot Interaction, Performance and Data Structures, Linear Algebra with Applications, Discrete Mathematics, Introduction to Differential Equations, Calculus I and II
- 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 organization of President's Affairs Administration of the Republic of Kazakhstan JSC "Engineering and Technology Center", Nur-Sultan, Kazakhstan
- Assisting in Information System Management
 - Assisting with various organizational tasks of the department
 - Analyzing 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 organization 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 **Organizer, manager of Liaison Officers**, Astana Economic Forum, Nur-Sultan, Kazakhstan
- Coordinating Liaison Officers assigned to VIP guests
 - Managing guests' documentation
- June 2013 **Translator**, Kazakh-Slovene Business Forum, Nur-Sultan, Kazakhstan
- Facilitating interaction between Kazakh and Slovene businessmen
 - Translating agreements and conversations

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.

[In press] Asselborn T., Zhexenova Z., Tleubayev B., Sandygulova A., Johal W., Dillenbourg P. "The transferability of handwriting skills: from the Cyrillic to the Latin alphabet." *npj Science of Learning*

CONFERENCES

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| 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 |
| | - Best presentation in "Intelligent Robot and Artificial Intelligence Technology" section |
| March 2020 | Presenter , video presentation "CoWriting Kazakh: Learning a New Script with a Robot-Demonstration", ACM/IEEE International Conference on Human-Robot Interaction 2020 |
| | - Best Demo Award - Reviewers Choice |

ADDITIONAL SKILLS AND ACHIEVEMENTS

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| October 2020 | Startup Challenge Winner , ABC Startup Challenge by NURIS, Nur-Sultan, Kazakhstan |
| | - Development of a social networking mobile application using Flutter and Firebase |
| | - Presenting the prototype in front of investors and experts in the field |
| | - Networking and communication with startup community |
| September 2018 | Startup Challenge Finalist , Startup Weekend by Astana Innovations Challenge and Techstars, Nur-Sultan, Kazakhstan |
| | - Development of a face and posture recognition system prototype |
| | - Presenting the prototype in front of investors and experts in the field |
| | - Networking and communication with startup community |
| 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 |
| December 2013 | English as a Second Language Course participant , Saint Johnsbury, Vermont, United States of America |
| | - Attending classes at Saint Johnsbury Academy |
| | - Participating in extracurricular activities of the academy |
| Summer 2012 | English Language Course participant , Bournemouth, United Kingdom |
| | - Attending classes at Education First Bournemouth Summer School |
| | - Participating in cultural programs |
| August 2011 | Web Design Course participant , Saint Petersburg, Russia |
| | - Attending classes at Saint Petersburg State University of Information Technologies, Mechanics and Optics |
| | - Acquiring web-design skills and knowledge |

CERTIFICATES

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

Summer 2016 EXPO-2017 Supervisors Training Certificate, Nur-Sultan, Kazakhstan

LANGUAGES

Native: Russian, Kazakh

Full professional proficiency: English (IELTS 7.5/C1, valid until May 2021, TOEFL 101, valid until November 2021)

TECHNICAL SKILLS

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

Industrial automation programming: Siemens TIA Portal, CODESYS, Festo FluidSIM

HOBBIES AND INTERESTS

I enjoy trainings in Mixed Martial Arts club because I think that such sport gives you another perspective on challenges you encounter in your life. I also have a keen interest in Ballroom Dances due to their relaxing effect. I am also interested in psychology, currently finishing a course on analysis and interpretation Minnesota Multiphasic Personality Inventory (adapted 1st edition for Russian speaking population) test.

In my free time over the last half a year I learned Swift and Flutter programming languages and could publish two applications on the App Store. In Swift I can work with Multiple MVCs, CoreData, MapKit, Firebase API, CloudKit, MapKit, WebKit, JSON files, Document Based Apps. In Flutter I am familiar with SQLite persistence, Firebase API, HTML requests. I have no practical experience neither salary for this, so I think that this is my hobby.

2017 - 2019	Club administrator, co-head , Nazarbayev University Mixed Martial Arts Club <ul style="list-style-type: none">- Organization of university-wide live broadcasts of fighting events- Management of the club activity
December 2016	Performer , IX Winter Charity Ball, Nur-Sultan, Kazakhstan <ul style="list-style-type: none">- Participation in fundraising for inclusive education fund
December 2014	Performer , Ball of the First President, Nur-Sultan, Kazakhstan
March 2014	Performer , Charity Tulip Ball, Nur-Sultan, Kazakhstan <ul style="list-style-type: none">- Participation in fundraising for the fund of women in critical situations
May 2009	2nd place in open Judo contest , Nur-Sultan, Kazakhstan