Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**OYUT BATCHULUUN**
Address(es)	Via Fabio Severo 40, Trieste, Italy
Telephone(s)	+39 351 466 0667
E-mail	OYUT.BATCHULUUN@phd.units.it
Nationality	MONGOLIA
Date of birth	03/05/1999
Gender	FEMALE

Work experience

Dates	Nov 2024 – Present
Occupation or position held	PhD candidate in Nanotechnology
Main activities and responsibilities	Conducted original research on the integration of InAs quantum wells with superconductors for quantum computing, designed and executed experiments, analyzed data, collaborated with interdisciplinary teams, and contributed to publications.
Name and address of employer	University of Trieste, Trieste, Italy CNR - Istituto Officina dei Materiali (IOM)

Dates	Oct 2022 – Aug 2023
Occupation or position held	Laboratory assistant
Main activities and responsibilities	Prepare lab equipment for upcoming research experiments, report data and compile information into graphs and documents, clean and maintain lab equipment.
Name and address of employer	Department of Chemistry and Biological Engineering, National University of Mongolia, Ulaanbaatar, Mongolia
Type of business or sector	Public

Dates	Oct 2021 – Jan 2022
Occupation or position held	Test analyst
Main activities and responsibilities	All responsibilities of test planning, to check if the team has all the necessary resources to execute the testing activities and if testing is going hand in hand with the software development in all phases. Prepare the status report of testing activities.
Name and address of employer	Interactive LLC, Ulaanbaatar, Mongolia
Type of business or sector	Private

Education and training

Dates	Sep 2021 – Jan 2023
Title of qualification awarded	Master of Science
Principal subjects/occupational skills covered	Physics
Name and type of organisation providing education and training	National University of Mongolia, Ulaanbaatar, Mongolia
Thesis Topic	Electronic properties of Al/InGaAs interface using density functional theory
Grade Point Average (GPA)	3.8/4.0
Dates	Sep 2017 – Jun 2021
Title of qualification awarded	Bachelor of Engineering
Principal subjects/occupational skills covered	Nano Science and Engineering
Name and type of organisation providing education and training	National University of Mongolia, Ulaanbaatar, Mongolia
Thesis Topic	Semiconductor InAs/InGaAs quantum well simulated by the Poisson-Schrodinger method
Grade Point Average (GPA)	3.5/4.0

Personal skills and competences

Mother tongue(s)	**Mongolian**
Other language(s)	**English**

Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
Language	B2	B2	B2	B2	B2

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences	Playing chess
Technical skills and competences	Synthesis and functionalization of nanoparticles such as coprecipitation, sol-gel method, Ball milling Spectroscopic analysis such as UV-vis, Nanophox (Photon Cross-Correlation Spectroscopy PCCS), Surface area analyzer (Brunauer-Emmett-Teller BET), Zeta potential measurement
Computer skills and competences	Software and computer programs such as Quantum Espresso, 1D Poisson, NextNano, XCrysden, Vesta, Linux, Origin, Latex, PowerPoint

Additional information	**Publications:** Batchuluun, O., Tsogbadrakh, N., & Ganbold, T. "Prediction of Optimal Thickness of InAs/InGaAs Quantum Well." Defect and Diffusion Forum, vol. 423, Trans Tech Publications, Ltd., 17 Apr. 2023, pp. 33–40. Crossref, doi:10.4028/p-uxr24d.
	Poster Presentation: "Optimal thicknesses on InAs/InGaAs quantum well by simulating charge density of 2DEG using the Poisson-Schrodinger method" at the 10th International Conference on Materials Science, November 19-20, 2021.
	Research Associate Nov 2022 – Mar 2023 Nanomagnetic Materials Design and Characterization of High Energy Product Permanent Magnet
	Research Associate Jun 2020 – Aug 2020 NUM Start-Up 2.0 Project title: 'Antimicrobial Copper Nanocomposite Spray'

The undersigned is aware that, pursuant to art. 26 of Law 15/68, and Articles. 46 and 47 of Presidential Decree 445/2000, false statements, falsified acts and use of false acts are punishable under the Penal Code and special laws. Moreover, the undersigned authorizes the processing of personal data, in accordance with the provisions of Law 675/96 of 31 December 1996.

City _Trieste,Italy_, on 27/ 01 / 2025

NAME (SIGNATURE)

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