

# Marsel Ganeyev

Graduate Researcher

## CONTACTS

### Address:

Ebbe Lieberathsgatan 22F,  
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Sweden

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## LANGUAGES

English – fluent (IETLS 7.5)

German – B2/1

French – A1/2

Russian – native

Tatar – native

Kazakh – fluent

## WORK EXPERIENCE

09/2021 – present

Industrial PhD Student  
Department of Biomaterials, Institute of Clinical Sciences,  
University of Gothenburg, Sweden  
Research & Technology Department, Oticon Medical, Sweden

### Responsibilities:

- Work on project "On a scientific basis for a novel bone-conduction hearing implant system"

08/2020 – 03/2021

Master Thesis Student, Department of Biomaterials,  
Bayreuth University, Germany

### Responsibilities:

- Work on project "Biofabrication of cell-laden diaphragm patch"
- Synthesis and preparation of the GelMA/Gellan hydrogel and supporting PCL/PGS polymer material
- Scaffold design and processing with integrated myoblasts via 3D bioprinting
- Material mechanics and degradation studies
- Cell culture study and immunohistochemistry staining

05/2019 – 08/2019

Visiting Student, Laboratory for Bone Biomechanics,  
ETH Zurich, Switzerland

### Responsibilities:

- Work on project "Effects of long-term mechanical loading on bone-like tissue formation in 3D bioprinted cell-laden scaffolds"
- Preparation of the bioink made of Grafite Oxide/ Alginate/ Gelatin with hMSCs
- Application of long-term cyclic loading on 3D bioprinted cell-laden scaffolds with varying pre-culture duration
- In situ  $\mu$ CT monitoring of mineral formation on 3D bioprinted cell-laden scaffolds
- Histology and immunochemistry staining

05/2019 – 08/2019

Research Assistant, Department of Biomaterials,  
Bayreuth University, Germany

### Responsibilities:

- Production, extraction and purifications of spider silk and mussel polyphenol oxidase-like protein
- Literature review and data organization

04/2018 – 07/2018

Research Assistant, Biomedical Engineering Group,  
Nazarbayev University, Astana, Kazakhstan

### Responsibilities:

- Synthesis of methyl methacrylate porous microparticles coated with  $\text{TiO}_2$
- Study of microparticles' cytotoxicity and cells growth kinetics incorporated within synthesized material

08/2016 – 05/2017

Student Intern in “Institute of Batteries” LLC,  
Astana, Kazakhstan

Responsibilities:

- Work on projects “3D aqueous Li-ion batteries”, “SiO<sub>x</sub> anode material for Li-ion batteries
- Assembly of Li-ion batteries with SiO<sub>x</sub> anode material
- Study of the anode material by SEM and XRD analysis

08/2016 – 05/2017

Student Intern at South Kazakhstan Polymer Processing Plant,  
Kantau, Kazakhstan

Responsibilities:

- Study the HDPE, LLDPE polymer processing and production units

## **EDUCATION**

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09/2021 – present

PhD in Medical Science  
University of Gothenburg, Sweden

10/2019 – 03/2020

Semester Project  
ETH Zurich, Switzerland

01/2018 – 03/2021

MSc in Biofabrication  
Bayreuth University, Germany

09/2014 – 05/2018

Bachelor’s in Chemical Engineering  
Nazarbayev University, Astana, Kazakhstan

## **AWARDS**

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10/2019 – 03/2021

DAAD Scholarship for Graduates in all Disciplines

## **RELEVANT SKILLS**

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Software: Matlab, Repetier-Host, Slic3r, PIPESIM, Aspen Plus, COMSOL, Sketchup, Mathematica, Creo

Laboratory experience:

- Cell culture and fluorescence microscopy imaging
- 3D bioprinting unites (RegenHU, BioBots)
- Tensile, rheology and compression testing of polymeric materials, operation of mechanical stimulation unit
- Polymer synthesis and hydrogel preparation
- NMR, SEM and DSC analysis
- Cryosectioning, histology and IHC staining

## **EXTRACURRICULAR ACTIVITIES**

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- Participant of several international archaeological expeditions
- “The Dzhungar Mountains Archaeological Project” (2017)
- Volunteer and tutor in the “Inclusive Education Center” and “Inclusive Theater” for teenager with special needs (2018)

## **REFERENCE CONTACTS**

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Dr. Sahar Salehi: sahar.salehi@bm.uni-bayreuth.de

Dr. Jianhua Zhang: jianhua.zhang@hest.ethz.ch

