

Isabel Goldaracena

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Research & work experience

Wyss Institute for Biologically Inspired Engineering, Harvard University Boston, MA.
Research Assistant II– High Throughput Imaging at Dr. Peng Yin Lab March 2019 - Present

MIT-Harvard Health Science and Technology (HST) Boston, MA.
Research Trainee. P.I. MD PhD Joseph V. Bonventre January 2018 - July 2018

- Successful development and characterization of polymeric and hybrid composite nano spheres for sustained release for drug, protein and gene delivery.
- In charge of cellular, subcellular and tissue imaging using advanced microscopy.
- Implementation of nanoscale pathology techniques for identification of sub cellular structures in injured tissues (in collaboration with MIT Media Lab).

Boehringer Ingelheim Pharma Biberach an der Riss, Germany.
Research Intern at Formulation Development Dept. March 2017 - July 2017

- Development of an innovative and alternative ultra- /dia filtration process for highly concentrated protein solutions.
- Characterization of the protein integrity during long storage time. Alternative formulation found for antibodies stability to storage in liquid solutions up to one month.

Education

BS in Biotechnological Engineering Monterrey, Mexico
ITESM August 2013 - December 2018

- Bioprocess engineering
- Cumulative GPA: 3.7

International assignment: Biomedical Sciences Reutlingen, Germany
Reutlingen University August 2016 - December 2016

- Awards: DAAD (German Academic Exchange Service) scholarship holder.

Skills

- Confocal and fluorescence Microscopy
- Cell culture (including proliferative and cytotoxicity assays)
- Stem cell culture
- Chromatography methods (UP-SEC, IEC, IC)
- Immunocytochemistry and chemical staining.
- UF/DF
- Dynamic Light Scattering (DLS) and Zeta Potential
- Particle characterization; opalescence, viscosity, osmolality and conductivity.
- SDS-PAGE
- Fluency in German, English and Spanish
- Team work, creativity and entrepreneurship

Leadership

Varsity female soccer team

ITESM

Monterrey, Mexico
August 2013 - May 2017

- Captain of the team for two years, three national and more than ten regional championships won.
- Individual awards: Selected by the sport university commission as the best athlete of 2013.

Vice president of AESLP student association

ITESM

Monterrey, Mexico
August 2016 - December 2016

- Organization of events raising up to \$5,000 dls for academic scholarships to lower income students.

Tutor of blind and visual impaired students

IPACIDEVI

SLP, Mexico
January 2016 - May 2016

- Math, Chemistry and biology teaching and tutoring for high school students, now pursuing their bachelor.