

SAHAND IMAN SHAYAN

(813) · 614 · 7967 ◊ simanshayan@mail.usf.edu
4202 E Fowler Ave, ENB118 Tampa, FL 33620
www.linkedin.com/in/sahandshayan

EDUCATION

University of South Florida PhD Student Civil and Environmental Engineering	<i>Aug 2017 - Present</i>
University of Bologna M.Sc. Chemical and Process Engineering	<i>2013 - 2015</i>
Sahand University of Technology B.Sc. Chemical and Process Engineering	<i>2008 - 2013</i>

RESEARCH INTERESTS

- Water and wastewater treatment
- Algal research in resource recovery and nutrient removal
- Biofilm technology for biomass harvesting and bioproducts production
- Bioprocess engineering of mixed culture systems with forced conditions of growth
- Bioethanol production from lignocellulosic feedstock based on sustainable pretreatment

EXPERIENCES

Research Assistant
University of South Florida *Aug 2017 - Present*

- Modeling and optimization of shortcut nitrogen removal in algae-bacteria bioreactor

Process Engineer
Arka Sustainable Process Co *Jul 2016 - Jul 2017*

- Design and operation of 500lit rotating algal biofilm reactor for biomass extraction
- Design and Operation of Small Scale Anaerobic Digester of Domestic Municipal Waste

Visiting Scholar
Utah State University *Mar 2015 - Sep 2015*

- Technology of rotating algal biofilm reactor in wastewater treatment, nutrient removal and Lipid - Starch accumulation

Graduate Researcher
University of Bologna *Sep 2013 - Sep 2014*

- Study on Microalgae and 3rd Generation of biofuels
- Sustainability analysis of bio-ethanol production from lignocellulosic feedstock

Undergrad. Research Assistant
Sahand University of Technology *Jul 2009 - Jul 2013*

- Aerobic granulation in airlift reactor for industrial and municipal wastewater
- Feasibility of physicochemical color removal in combination with biological method

SKILLS

Computer Programming and Softwares

C/C++, MATLAB, ASPEN, HYSYS, COMSOL, AQUASIM, AutoCAD, MS Office

Analytical Skills

Chromatography, Spectrophotometer, Zeta Potential Analyzer, qPCR

Language Skills

English, Italian, Turkish, Persian

AWARDS AND ACHIEVEMENTS

- 1st ranked presentation of engineered solution for a problem in USF competition (2018)
- Outstanding reviewer for journal of Water Research (2017)
- Outstanding reviewer for journal of Algal Research (2016)
- 11000 euro study grant for international students at University of Bologna (2013-15)

PUBLICATIONS AND PRESENTATION

Sahand Iman Shayan, Foster A. Agblevor, Ronald C. Sims, Lorenzo Bertin Hydraulic retention time effects on wastewater nutrient removal and bioproduct production via rotating algal biofilm reactor Bioresource Technology, 2016, Bioresource Technology 211 (2016) 527533

Sahand Iman Shayan, Maryam Hosseini, Sabra Rostami, Sirous Ebrahimi, Combined biological and physicochemical processes for treatment of bakers yeast wastewater, Environmental Engineering and Management Journal, 2012 , 11(3)-S49, and presented in the international conference of Environmental Microbiology and biotechnology, in the frame of the Knowledge-Based Bio and Green Economy, Bologna, Italy, April 10-12, 2012

Chiara Toni, Martin Cipola, Gheorghe Falca, Sahand Iman Shayan, Bioethanol production plant - pretreatment with diluted acid University of Bologna, JANUARY 2015, DOI: 10.13140/2.1.2838.8648

REFERENCES

Dr. Sarina Ergas

Professor, Department of Civil and Environmental Engineering, University of South Florida
Phone: (813) 974-1119, Email: sergas@usf.edu

Dr. Qiong Zhang

Associate Professor, Department of Civil and Environmental Engineering, University of South Florida
Phone: (813) 974-6448, Email: qiongzhang@usf.edu

Dr. Ronald Sims

Professor, Biological Engineering Department, Utah State University
Phone: (435) 797-3156, Email: ron.sims@usu.edu