

# Cansu ULUŞEKER

E-mail: ulusekercansu@gmail.com

Cell: +39 329 577 0281

Address: Sola Prestegårdsveg 228

4055 Sola –Stavanger/Norway

Nationality: Turkish

Date of birth: 17.05.1988

Gender: Female



## POSITION:

- Feb. 2019 – Now **Post-doctoral Fellow in Department of Chemistry, Bioscience and Environmental Engineering in University of Stavanger**

## EDUCATION:

- Nov. 2014 - Oct. 2018 **Transdisciplinary PhD Program in Computational Biology in CIBIO University of Trento and The Microsoft Research Centre for Computational and Systems Biology (COSBI), Italy**

Mar. 2017 - June 2017 **Internship in CIB and CNB, Madrid Spain**

- Sep. 2012 - Sep. 2014 **MSc. Degree, Mathematical Modeling in Engineering - Mathematical Modelling in Life and Social Science**

### Erasmus Mundus MathMods Program:

Sep. 2013 - Sep. 2014 **University of L'Aquila, Italy**

Apr. 2013 - Aug. 2013 **University of Hamburg, Germany**

Sep. 2012 - Mar. 2013 **University of L'Aquila, Italy**

- Sep. 2006 - Jul. 2011 **BSc. Degree, Elementary Mathematics Education ODTU- Middle East Technical University (METU) Ankara, Turkey**

## THESIS:

- Oct. 2018 **Ph.D. Thesis: A Systems and Synthetic Biology Framework for Regulatory Systems.** Tutors: Martin M. Hanczyc, Alberto Inga Advisors: Ozan Kahramanoğulları, Corrado Priami
- Sep. 2014 **Master Thesis: A Mathematical Model of Leptin Hormone for Insulin-Glucose System for Diabetes Type 2.** Tutors: Pasquale Palumbo and Andrea De Gaetano - Institute for Systems Analysis and Computer Science-CNR

## PUBLICATIONS:

- **C. Uluşeker, J. Torres, J. L. Garcia, M. M. Hanczyc, J. Nogales and O. Kahramanoğulları. (2017). Dynamic model of the phosphate response system with synthetic promoters in *Escherichia coli*. Proc. of the International Conference on Artificial Life, ECAL, September, 2017, Lyon**
- **C. Uluşeker, G. Simoni, L. Marchetti, M. Dauriz, A. Matone and C. Priami. (2018). A closed-loop multi-level model of glucose homeostasis. PLoS ONE 13(2):e0190627**
- **C. Uluşeker, M. M. Hanczyc and O. Kahramanoğulları. (2018). Mechanisms of switching response to external phosphate levels in *Escherichia coli*. Proc. of the ALIFE conference, July 2018, Japan**
- **C. Uluşeker, J. Torres, J. L. Garcia, M. M. Hanczyc, J. Nogales and O. Kahramanoğulları. (2019). Quantifying dynamic mechanisms of auto-regulation in *Escherichia coli* with synthetic promoter in response to varying external phosphate levels. Scientific Reports (2019) 9:2076**

## **CONFERENCES:**

- July 2018 **ALIFE Conference:** Poster Presentation Tokyo, Japan
- Sep. 2016 **Microalgal Technologies in Food: Water: Energy Nexus:** Workshop Boğaziçi University Istanbul, Turkey
- Dec. 2015 **Pearl Seiden International Meeting in Life Sciences: From Synthetic Biology to Discovery and Applications, Technion – Israel Institute of Technology:** Poster Presentation Haifa, Israel
- July 2015 **Mathmods Summer School:** Workshop and Seminar Presentation at San Benedetto del Tronto, Italy
- July 2014 **Mathematical Modelling Workshop- MaMoW:** Workshop and Poster Presentation at University of L'Aquila, Italy
- May 2014 **Mechanics in Biology:** Workshop at Gran Sasso Science Institute, L'Aquila, Italy
- April 2014 **EECI International Graduate School on Control** L'Aquila, Italy
- Dec. 2013 **The 52nd IEEE Conference on Decision and Control** Florence, Italy
- Sep. 2013 and Aug. 2012 **Summer School at Aziz Nesin Mathematics village** Izmir, Turkey

## **EXPERIENCES:**

- Feb. 2014 **Member of Selection Committee at MathMods Group**  
Pre-evaluation of 2014-2016 academic semester applicants
- Oct. 2013 - Dec. 2015 **Volunteer at The Survey Project in Course Quality - Advisory Board Erasmus Mundus Students and Alumni Association**  
Focus on improving survey response rates & reception of written reports
- Dec. 2013 - Dec. 2015 **Country Representative of Erasmus Mundus Students and Alumni Association**
- Sep. 2011 - June 2012 **Internship as Assistant Teacher at Comenius I.E.S Manuel De Falla**  
Cadiz, Spain  
Teaching, participating in projects, and implementing activities and materials
- Sep. 2010 - Jan. 2011 **Internship at Ankara Bilkent College** Ankara, Turkey  
Observation of teaching process and teaching and learning center project
- Sep. 2009 - Dec. 2009 **METU Science and Technology Museum** Ankara, Turkey  
Organizing visit schedules, structuring the content and explaining the experiment

## **HONORS and AWARDS:**

- July 2014 **Best Poster Presentation Mathematical Modelling Workshop- MaMoW**
- Sep. 2012 **Italian Regional Grant**
- Sep. 2011 **Comenius Assistantship scholarship by The Lifelong Learning Program**
- 2010 - 2011 and 2009 - 2010 **Honor Degree Middle East Technical**
- 2006 - 2011 **Scholarship of Republic of Turkey Ministry of National Education**

## **ORGANIZATIONAL SKILLS AND COMPETENCES:**

- 2010 and 2011 METU Spring Fest organization community staff
- 2010 Organization of a Photography Exhibition of METU Photography Social Club
- 2010 - 2011 “Education Project” of METU Education Club
- 2010 Festival on Wheel volunteer staff

## **SKILLS, LANGUAGES AND INTERESTS:**

- Matlab, Linux, LaTeX
- **Turkish:** Mother Tongue
- **English:** fluent
- **Italian:** Intermediate
- **Spanish:** Beginner
- Strong organizational skill as well as planning skills, team spirit
- Music: flute, photography, hiking and rock climbing