

# Oznur Tastan

---

<b>Current Position</b>	Assistant Professor at Sabanci University, Faculty of Engineering and Natural Sciences Computer Science and Engineering Program Molecular Biology, Genetics and Bioengineering Program	
<b>Contact Information</b>	Sabanci Universitesi FENS 2001 Tuzla, Istanbul, 34956, Turkey	+90 (216) 483-9883 otastan@sabanciuniv.edu
<b>Education</b>	<b>Carnegie Mellon University</b> , Pittsburgh, PA, USA Ph.D., School of Computer Science, Language and Information Technologies Thesis Title: Prediction of Host-Virus Protein-Protein Interactions Thesis Advisors: Profs. Jaime G. Carbonell and Judith Klein-Seetharaman M.Sc., School of Computer Science, Language and Information Technologies (in parallel to Ph.D.) <b>Sabanci University</b> , Istanbul, Turkey B.Sc., Biological Sciences and Bioengineering	<b>2011</b> <b>2007</b> <b>2004</b>
<b>Research Interests</b>	Computational biology, Bioinformatics, Machine learning.	
<b>Awards and Honors</b>	<b>Awarded</b> Young Scientist Award 2014 (BAGEP 2014), The Science Academy of Turkey <b>Awarded</b> UNESCO-L'Oreal National Women in Science Award <b>Awarded</b> Research Fellowship, Carnegie Mellon University <b>Awarded</b> Travel Award, Pacific Symposium on Biocomputing Conference <b>Awarded</b> Honor Fellowship, Sabanci University <b>Awarded</b> Haci Omer Sabanci Foundation Fellowship (monthly stipend), Turkey <b>Awarded</b> International Scholarship for overseas undergraduate education by the Ministry of National Education of the Republic of Turkey (declined)	<b>2014</b> <b>2013</b> <b>2004 – 2010</b> <b>2009</b> <b>1999 – 2004</b> <b>1999 – 2004</b> <b>1999</b>
<b>Professional Experience</b>	<b>Assistant Professor</b> Sabanci University, Faculty of Engineering and Natural Sciences, Istanbul, Turkey <b>Assistant Professor</b> Bilkent University, Department of Computer Engineering, Ankara, Turkey <b>Post-doctoral Researcher</b> Microsoft Research New England, Cambridge, MA, USA <b>Graduate Research Assistant</b> Language Technologies Institute, Carnegie Mellon University, Pittsburgh, PA, USA <b>Visiting Research Assistant</b> Department of Pharmacology, University of Pittsburgh <b>Undergraduate Research Assistant</b> Biological Sciences and Bioengineering Program, Sabanci University, Turkey	<b>Dec 2017 – Present</b> <b>Sep 2012 – Dec 2017</b> <b>Aug 2010 – Jul 2012</b> <b>Aug 2004 – 2010</b> <b>Jun 2003 – Sep 2003</b> <b>Fall 2000 – Spring 2004</b>
<b>Teaching Experience</b>	<b>Instructor</b> for CS680 Advanced Machine Learning (taught with B. Yanikoglu and H. Ozkan) • Graduate level, Faculty of Engineering and Natural Sciences, Sabanci University <b>Instructor</b> for DA514 Machine Learning (taught with Berrin Yanikoglu) • Masters level, Data Analytics Programs, Sabanci University <b>Instructor</b> for BIO310 Introduction to Bioinformatics • Junior level, Faculty of Engineering and Natural Sciences, Sabanci University <b>Instructor</b> for CS464 Introduction to Machine Learning • Senior level, Department of Computer Engineering, Bilkent University <b>Instructor</b> for CS557 Computational Systems Biology • Graduate level, Department of Computer Engineering, Bilkent University <b>Instructor</b> for CS102 Algorithms and Programming II • Freshman level, Department of Computer Engineering, Bilkent University <b>Instructor</b> for CS101 Algorithms and Programming I • Freshman level, Department of Computer Engineering, Bilkent University <b>Instructor</b> for CS114 Introduction to Programming for Engineers • Sophomore level, Department of Computer Engineering, Bilkent University <b>Coordinator</b> for CS590/690 Research Seminar I/II • Senior level, Department of Computer Engineering, Bilkent University <b>Teaching Assistant</b> for 10-601 Machine Learning Course	<b>Spring 2018</b> <b>Spring 2018</b> <b>Spring 2018</b> <b>Fall 2014; Spring 2014, 2015, 2016, 2017</b> <b>Fall 2015; Spring 2014, 2015</b> <b>Fall 2014, 2015, 2016</b> <b>Fall 2014</b> <b>Fall 2012; Spring 2013</b> <b>Fall 2013, 2014; Spring 2017</b> <b>Fall 2009</b>

- Graduate level, Machine Learning Department, Carnegie Mellon University, instructed by Prof. Geoffrey Gordon and Dr. Miro Dudik

**Teaching Assistant** for Foundations of Molecular Biophysics III Course

**Spring 2007**

- Graduate, Structural Biology Department, University of Pittsburgh, instructed by Profs. Sanford Leuba and Judith Klein-Seetharaman

**Teaching Assistant** for ENS210 Computational Biology Course

**Spring 2003**

- Sophomore/junior level, Biological Sciences and Bioengineering Programme, Sabanci University, instructed by Prof. Osman U. Sezerman

## Publications

### Journal Publications, Peer-Reviewed Conference and Workshop Papers

1. G. Kale, E. Ayday, and **O. Tastan** (2018). A utility maximizing and privacy preserving approach for protecting kinship in genomic databases, *Bioinformatics*, 34(2), 15, pp 181–191.
2. I. Deznabi, M. MobayenJarihani, J. Nazanin, **O. Tastan** and E. Ayday (2017). An inference attack on genomic data using kinship, complex correlations and phenotype information. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, pp. 99, 1.
3. I. Deznabi, A. A. Celik and **O. Tastan**. MEMNAR: Finding mutually exclusive mutation sets through negative association rule mining. The 11<sup>th</sup> International Workshop on Machine Learning in Systems Biology, at the 25<sup>th</sup> ISMB/ECCB, Prag, Czech Republic, Jul 25, 2017.
4. M. Buyukozkan, H. I. Kuru and **O. Tastan**. Partially ordered expression features improves survival prediction in cancer. The 11<sup>th</sup> International Workshop on Machine Learning in Systems Biology, at the 25<sup>th</sup> ISMB/ECCB, Prag, Czech Republic, Jul 25, 2017.
5. B. Otlu, C. Firtina, S. Keles and **O. Tastan** (2017). GLANET: A tool for annotation and enrichment analysis of variable length genomic loci. *Bioinformatics*, 33(18):2818-28.
6. C. Orhan and **O. Tastan**. ALEVS: Active learning by statistical leverage sampling. *ICML Active Learning Workshop*, 32<sup>nd</sup> International Conference on Machine Learning (ICML), Lille, France, Jul 6–11, 2015.
7. A. B. Unal and **O. Tastan**. Identification of cancer patient subgroups via smoothed shortest path graph kernel, *NIPS Workshop on Machine Learning in Computational Biology*, Barcelona, Dec 10, 2016.
8. C. Yao, B.H. Chen, R. Joehanes, B. Otlu, X. Zhang, C. Liu, T. Huan, **O. Tastan**, L. A. Cupples, J. B. Meigs, C. S. Fox, J.E. Freedman, P. Courchesne, C. J. O'Donnell, P. J. Munson, S. Keles and D. Levy (2015). Integrated analysis of genetic variation and gene expression identifies networks for cardiovascular disease phenotypes. *Circulation*. 131(6):536-49.
9. **O. Tastan**, Y. Qi, J.G. Carbonell and J. Klein-Seetharaman. Refining literature-curated HIV-1, human protein-protein interactions using expert opinions. *Pacific Symposium on Biocomputing*, Big Island of Hawaii, 318-29, Jan 2–9, 2015.
10. T. Jartti, O. Palomares, M. Waris, **O. Tastan**, R. Nieminen, T. Puhakka, B. Ruckert, A. Aab, T. Vuorinen, A. Tobias, T. Vahlberg, O. Ruuskanen, M. Akdis and C. Akdis (2014). Distinct regulation of tonsillar immune response in virus infections. *Allergy*. 69(5):658-67.
11. **O. Tastan**, A. Dutta, P. Booth and J. Klein-Seetharaman (2014). Retinal proteins as model systems for membrane protein folding. *Biochimica et Biophysica Acta*; 1837(5):656-63.
12. Z. Zhao, J. Xia, **O. Tastan**, I. Singh, M. Kshirsagar, J.G. Carbonell and J. Klein-Seetharaman (2011). Virus interactions with human signal transduction pathways. *International Journal of Computational Biology and Drug Design*. 4(1), p83-105.
13. S. Uguroglu, **O. Tastan**, J. Klein-Seetharaman and S.H. Leuba (2011). Identification of potentially relevant citeable articles using association rule mining. *Medicinal Chemistry*. 1:e101.
14. Y. Qi, **O. Tastan**, J.G. Carbonell, J. Klein-Seetharaman and J. Weston (2010). Semi-supervised multi-task learning for predicting interactions between HIV-1 and human proteins. *Bioinformatics*, 26(18):645-52.
15. Singh, I, **O. Tastan** and J. Klein-Seetharaman (2010). Comparison of virus interactions with human signal transduction pathways. *Proceedings ACM International Conference on Bioinformatics and Computational Biology*, p17-24.
16. N.J. Venkatachari, T. Le, **O. Tastan**, M.D. Timothy, L. Walker, A. Ricciuti, N. Yanamala, A. Srinivasan, J. Klein-Seetharaman, M. Ramachandran, R.C. Montelaro and V. Ayyavoo (2010). Oligomerization of HIV-1 Vpr: Identification of essential domains/residues using structure based approaches and evaluation of its relevance to Vpr functions. *Virology Journal*, 7:119.

17. S. Balakrishnan, **O. Tastan**, J.G. Carbonell and J. Klein-Seetharaman (2009). Alternative paths in HIV-1 targeted human signal transduction pathways. *BMC Genomics* 10 Suppl. 3, S30.
18. **O. Tastan**, J. Klein-Seetharaman and H. Meirovitch (2009). The effect of loops on the structural organization of alpha-helical membrane proteins. *Biophysical Journal*, 96:2299-312.
19. **O. Tastan**, E. Yu, M. Ganapathiraju, A. Aref, A.J. Rader and J. Klein-Seetharaman (2007). Comparison of stability predictions and simulated unfolding of rhodopsin structures. *Photochemistry and Photobiology*, 83:351-62.

#### Book Chapter

1. K. Hadi, **O. Tastan**, A. Srinivasan and V. Ayyavoo (2013). Human Immunodeficiency Virus (HIV-1) Vpr polymorphism and disease progression: Mutagenesis approach to study structure-function relationship of HIV-1 Vpr. Book Chapter in *Genetic Manipulation of DNA and Protein - Examples from Current Research* edited by David Figurski, InTech.

#### Selected Poster Presentations

- N. Eskici, **O. Tastan**, G. Olgun and Didem Dayangac-Erden. Physical interaction and gene expression analysis of perineuronal net elements in neuronal differentiation, EMBO Workshop on Functional Genetic Variation, Turin, Italy, 8–10 Sep 2017.
- G. Olgun, O. Sahin and **O. Tastan**, Discovering breast cancer subtype specific lncRNA mediated ceRNA interactions, 10<sup>th</sup> International Symposium on Health Informatics and Bioinformatics HIBIT 2017, Guzelyurt, Cyprus, Jun 28–30, 2017.
- I. Deznabi, A. A. Celik and **O. Tastan**. MEMNAR: Finding mutually exclusive mutation sets through negative association rule mining, the 11<sup>th</sup> International Workshop on Machine Learning in Systems Biology, Prag, Czech Republic, Jul 25, 2017.
- M. Buyukozkan, H. I. Kuru and **O. Tastan**. Partially ordered expression features improves survival prediction in cancer. The 11<sup>th</sup> International Workshop on Machine Learning in Systems Biology, Prag, Czech Republic, Jul 25, 2017.
- G. Kale and **O. Tastan**. Early diagnosis of cancer from volatile organic compounds, 11<sup>th</sup> Women in Machine Learning, Barcelona, Spain, Dec 5, 2016.
- D. Ozcelik and **O. Tastan**. A weakly supervised clustering method for cancer subgroup identification, 11<sup>th</sup> Women in Machine Learning, Barcelona, Spain, Dec 5, 2016.
- A. B. Unal and **O. Tastan**. Identification of cancer patient subgroups via smoothed shortest path graph kernel, NIPS Workshop on Machine Learning in Computational Biology, Barcelona, Dec 10, 2016.
- D. Ozcelik and **O. Tastan**. Partially supervised clustering for cancer subgroup identification, 9<sup>th</sup> International Symposium on Health Informatics and Bioinformatics HIBIT 2015, Mugla, Turkey, Oct 16–17, 2015.
- B. Otlu, S. Keles, **O. Tastan**. GLANET: Genomic loci annotation and enrichment tool, 13<sup>th</sup> European Conference of Computational Biology, Strasbourg, France, Sep 7–10, 2014.
- **O. Tastan**, Y. Qi, J.G. Carbonell and J. Klein-Seetharaman. Refining literature-curated HIV-1, human protein-protein interactions using expert opinions. 16<sup>th</sup> Annual International Conference on Research in Computational Molecular Biology RECOMB 2012, Barcelona, Spain, Apr 21–24, 2012.
- **O. Tastan**, Y. Qi, J.G. Carbonell and J. Klein-Seetharaman. Estimating confidence in the HIV-1, human protein interactome given expert labels. The 23<sup>rd</sup> Annual Meeting of the Groups Studying the Structures of AIDS-Related Systems and their Application to Targeted Drug Design, Satellite Session, Bethesda, Maryland, USA, Jun 25–26, 2009.
- **O. Tastan**, J. Klein-Seetharaman and H. Meirovitch. The effect of loops on the structural organization of alpha-helical membrane proteins. 3Dsig: Structural Bioinformatics and Computational Biophysics an ISMB Satellite Meeting, Stockholm, Sweden, Jun 27–28, 2009.
- **O. Tastan**, E. Yu, A.J. Rader and J. Klein-Seetharaman. Comparison of simulated unfolding of membrane protein structures. 51<sup>st</sup> Annual Meeting of the Biophysical-Society, Baltimore, MD, USA, Mar 3–7, 2007.

#### Selected Talks

- Middle East Technical University, Informatics Institute, Apr 24, 2017, Ankara, Turkey (Invited talk).
- MINE Project Research group, Prof. Nazli Basak Lab and Genomize, Apr 14, 2017, Istanbul, Turkey (Invited talk).
- Hacettepe University, Medical Biology Department, Dec 6, 2016, Ankara, Turkey (Invited talk).
- Tibbi Genetik Dernegi 12. Ulusal Tibbi Genetik Kongresi, 5–9 Oct 2016, Cesme, Turkey (Invited talk).
- Bilkent University, Electrical Engineering Department, EEE 591/592 Seminar, Apr 22, 2016, Ankara, Turkey (Invited talk).
- Bilkent University, Molecular Biology and Genetics, Mar 23, 2016, Ankara, Turkey (Invited talk).
- 14<sup>th</sup> National Congress in Clinical Biology and Medical Genetics, Oct 22, 2015, Mugla, Turkey (Invited talk).

- 20<sup>th</sup> International Conference of Machine Learning, Jul 5–10, 2015, Lille, France (Contributed talk).
- 22<sup>nd</sup> Statistical Physics Days, Istanbul Technical University, Jun 25, 2015, Istanbul, Turkey (Invited talk).
- 20<sup>th</sup> Pacific Symposium on Biocomputing, Jan 2–9, 2015, Big Island of Hawaii, USA.
- Hacettepe University, Medical Biology Department, Feb 14, 2014, Ankara, Turkey (Invited talk).
- Turkish Scientific and Research Council, Bioinformatics Summer School for High School Students, Sep 6, 2013, Istanbul, Turkey (Invited lecturer).
- Bilkent University, Molecular Biology and Genetics, Apr 24, 2013, Ankara, Turkey (Invited talk).
- Middle East Technical University, Computer Engineering Department, May 8, 2012, Ankara, Turkey (Invited talk).
- Istanbul Technical University, Computer Engineering Department, May 4, 2012, Istanbul, Turkey (Invited talk).
- Bilkent University, Computer Engineering Department, May 2, 2012, Ankara, Turkey (Invited talk).
- Sabanci University, Computer Science Seminar Series, Apr 26, 2012, Istanbul, Turkey (Invited talk).
- Microsoft Research TechFest, March 6-9, 2012, Redmond, WA, USA (Demo).
- Bioengineering Department, MIT, February 22, 2012 (Invited talk).
- 9<sup>th</sup> Annual Rocky Mountain Bioinformatics Conference, Aspen, Colorado, USA, Dec 11, 2011 (Talk)
- Learning Workshop, Clearwater, Florida, USA, Apr 13-16, 2009.
- The 23<sup>rd</sup> Annual Meeting of the Groups Studying the Structures of AIDS-Related Systems and their Application to Targeted Drug Design, Satellite Session, Bethesda, Maryland, USA, Jun 25-26, 2009 (Talk).
- 3Dsig: Structural Bioinformatics and Computational Biophysics an ISMB Satellite Meeting, Stockholm, Sweden, Jun 27-28, 2009 (Contributed talk).
- VIII European Symposium of the Protein Society, Zurich, Switzerland, Jun 14-18, 2009
- Molecular Biophysics and Structural Biology Data & Literature Club, Department of Structural Biology, School of Medicine, University of Pittsburgh, Pittsburgh, PA, USA, Apr 9, 2008 (Invited talk)
- 52<sup>nd</sup> Annual Meeting of the Biophysical Society, Long Beach, California, USA, 2008,
- 21<sup>nd</sup> Annual Symposium of the Protein Society, Boston, Massachusetts, USA, 2007.

## Student Supervision

### Current Graduate Students (Ph.D.)

- **Gulden Olgun**, Department of Computer Engineering, Bilkent University, Ankara, 9/2013 – Present

### Current Graduate Students (M.Sc.)

- **Onur Can Uner**, Department of Computer Engineering, Bilkent University, Ankara, 9/2016 – Present
- **Iman Deznabi**, Department of Computer Engineering, Bilkent University, Ankara, 9/2015 – Present
- **Mustafa Furkan Demir**, Department of Computer Engineering, Bilkent University, Ankara, 9/2015 – Present
- **Halil Ibrahim Kuru**, Department of Computer Engineering, Bilkent University, Ankara, 2/2016 – Present

### Current Undergraduate Volunter Students (M.Sc.)

- **Ali Atli**, Department of Computer Engineering, Bilkent University, Ankara, 6/2017 – Present
- **Onur Kulaksizoglu**, Department of Computer Engineering, Bilkent University, Ankara, 1/2017 – Present
- **Taha Aksu**, Department of Computer Engineering, Bilkent University, Ankara, 1/2017 – Present
- **Alparslan Celik**, Department of Computer Engineering, Bilkent University, Ankara, 9/2015 – Present
- **Irem Ergun**, Department of Computer Engineering, Bilkent University, Ankara, 2/2017 – Present

### Graduate Students (Ph.D. Alumni)

- **Burcak Otlu**, Department of Computer Engineering, METU, Ankara, co-supervised with Prof. Sunduz Keles, Prof. Tolga Can, 3/2013 – 7/2017.

### Graduate Students (M.Sc. Alumni)

- **Ali Burak Unal**, Department of Computer Engineering, Bilkent University, graduated in Feb 2017.  
Thesis title: “Identification of Cancer Patient Subgroups via Pathway Based Multi-View Graph Kernel Clustering”  
Current position: PhD Student, Methods in Medical Informatics, Department of Computer Science, University of TÄijbingen.
- **Gulce Kale**, Department of Computer Engineering, Bilkent University, graduated in Feb 2017.  
Thesis title: “A Utility Maximizing and Privacy Preserving Approach for Protecting Kinship in Genomic Databases”  
Current position: Data Scientist, Chatterbox Labs, London, UK.
- **Duygu Ozcelik**, Department of Computer Engineering, Bilkent University, graduated in Jun 2015 – Present  
Thesis title: “A Weakly Supervised Clustering Method for Cancer Subgroup Identification”

Current position: Software Engineer, HAVELSAN, Ankara, Turkey.

- **Cem Orhan**, Department of Computer Engineering, Bilkent University, graduated in Jul 2015.  
Thesis title: “Active Learning Methods based on Statistical Leverage Scores”  
Current position: Ph.D. student in School of Computer and Communication Sciences, Ecole Polytechnique Federale Lausanne, Lausanne, Switzerland.
- **Mustafa Buyukozkan**, Department of Computer Engineering, Bilkent University, graduated in Apr 2015.  
Thesis title: “Survival Prediction via Partial Ordering in Feature Space and Sample”  
Current position: Ph.D. student in Institute of Computational Biology, Helmholtz Zentrum Muenchen, Munich, Germany

#### **Independent Undergraduate Researchers (Alumni)**

- **Ali Kavis**, Department of Computer Engineering, Bilkent University, Ankara, 9/2015 – 9/2017
- **Can Firtina**, Department of Computer Engineering, Bilkent University, 3/2014 – 4/2015.
- **Dorukhan Arslan**, Department of Computer Engineering, Bilkent University, 2/2015 – 5/2015.
- **Ugurcan Yildirim**, Department of Computer Engineering, Bilkent University, 2/2015 – 5/2015.
- **Ahmet Kucuk**, Department of Computer Engineering, Bilkent University, 1/2014 – 5/2014.
- **Baturay Kaya**, Computer Science Programme, Sabanci University, 6/2014 – 9/2014.
- **Burak Yucesoy**, Department of Computer Engineering, Bilkent University, 9/2013 – 1/2014.

#### **Thesis Committees (Current)**

- **Muhammad Waqas Akbar**, Ph.D. candidate, Bilkent University, Molecular Biology and Genetics, Ankara, Turkey, since 2016. Advisor: Ali Gure.
- **Huma Shehwana**, Ph.D. candidate, Bilkent University, Molecular Biology and Genetics, Ankara, Turkey, since 2016. Advisor: Ozlen Konu.
- **Onur Erdogan**, Ph.D. candidate, Middle East Technical University, Graduate School of Informatics, Ankara, Turkey, since 2016. Advisor: Yesim Aydin Son.
- **Burcak Otlu**, Ph.D. candidate, Middle East Technical University, Department of Computer Engineering, Ankara, Turkey, since 2013. Advisor: Tolga Can.
- **Sitar Kortik**, Ph.D. candidate, Bilkent University, Department of Computer Engineering, Ankara, Turkey, since 2012. Advisor: Uluc Saranli.

#### **Thesis Committees (Alumni)**

- **Deniz Katircioglu**, M.Sc., Middle East Technical University, Health Informatics, completed in May 2017. Advisor: Nazife Baykal
- **Poyraz Umut Hatipoglu**, M.Sc., Middle East Technical University, Biomedical Engineering, completed in Jan 2016. Advisor: Cem Iyigun
- **Gokhan Ersoy**, M.Sc., Middle East Technical University, Health Informatics, completed in Jun 2015. Advisor: Yesim Aydin Son
- **Ekin Kantar Ozcirpan**, M.Sc., Middle East Technical University, Biomedical Engineering, completed in Jan 2015. Advisor: Gerhard-Wilhelm Weber
- **Marzie E. Rakesh**, M.Sc., Department of Computer Engineering, Bilkent University, Ankara, Turkey, completed in Jul 2015. Advisor: Can Alkan
- **Ahmet Iscen**, M.Sc., Department of Computer Engineering, Bilkent University, Ankara, Turkey, completed in Aug 2014. Advisor: Pinar Duygulu Sahin
- **Eren Golge**, M.Sc., Department of Computer Engineering, Bilkent University, Ankara, Turkey, completed in Aug 2014. Advisor: Pinar Duygulu Sahin
- **Melik Berkan Ercan**, M.Sc., Department of Computer Engineering, Bilkent University, Ankara, Turkey, completed in Aug 2014. Advisor: H. Altay Guvenir
- **Begum Genc**, M.Sc., Department of Computer Engineering, Bilkent University, Ankara, Turkey, completed in Jul 2014. Advisor: Ugur Dogrusoz
- **Can Cagdas Cengiz**, M.Sc., Department of Computer Engineering, Bilkent University, Ankara, Turkey, completed in Jul 2014. Advisor: Ugur Dogrusoz
- **Elif Eser**, M.Sc., Department of Computer Engineering, Bilkent University, completed in Aug 2013. Advisor: Hakan Ferhatosmanoglu
- **Azer Aylin Acikgoz**, M.Sc., Department of Molecular Biology and Genetics, Bilkent University, completed in Jul 2013. Advisor: Ozlen Konu
- **Utku Sirin**, M.Sc., Department of Computer Engineering, Middle East Technical University, completed in Jul 2013. Advisor: Faruk Polat
- **Fadime Sener**, M.Sc., Department of Computer Engineering, Bilkent University, completed in Jul 2013. Advisor: Pinar Duygulu Sahin
- **Yigit Caliskan**, M.Sc., Department of Computer Engineering, Bilkent University, completed in May

2013. Advisor: Pinar Duygulu Sahin

- **Elif Dal**, M.Sc., Department of Computer Engineering, Bilkent University, Ankara, Turkey, completed in Dec 2014. Advisor: Can Alkan

### Senior Project Supervision

- Alp Guvenir, Murat Deniz Parmaksiz and Turgay Arda Usman. *Project Apollo*, Senior Design Project (CS491-492), in progress.
- Begum Akbay, Osman Hakan Can and Muge Tetik. *Clewear*, Senior Design Project (CS491-492), completed in May, 2015.
- Ayhun Tekat, Mustafa Iman, Can Firtina and Ali Yesilyaprak. *Emotion Engine*, Senior Design Project (CS491-492), completed in May, 2015 (Received Sibel Ozelci Best Senior Design Project Award).
- Omer Caner Akbaba, Kadir Turker Gulsoy, Ertac Guney and Can Oncel. *Techno-Analyzer*, Senior Design Project (CS491/492), completed in May 2014.
- Abdullah Yilmaz, Burcu Suerdem, Ahmet Can Ersoz, Erman Gozu, Osman Baris Karaogen and Ceren Uzun, *Data Mining Study to Determine Profitable New Store Locations in Ankara Region*, Senior Project (IE477-478), completed in May 2014.
- Burhan Eyuboglu, Ali Kabatas, Huseyin Oner, Esat Ridvan Kavgaoglu and Emre Siranli. *Demijohn*, Senior Project (CS491/492), completed in May 2013.

### Research Grants

- Scientific and Technical Research Council of Turkey (TUBITAK-3501-117E140), *Discovering Cancer Patient Subgroups with Functional Graph Kernels*, PI, 2017- Present.
- Scientific and Technical Research Council of Turkey (TUBITAK-1001-213E036), *Early Diagnosis of Colorectal Cancer with Nanoelectromechanical Systems*, Researcher, 2014–2016.

### Academic Service University Service

- CSFair Organization Comitte, Fall 2012 – Spring 2017
- Student Performance Evaluation Comitttee, Spring 2016 – Fall 2017
- Member of Women In Machine Learning, Dec 2016 – Present.

### Conference Comittees

- Publicity Chair, The 8<sup>th</sup> ACM Conference on Bioinformatics, Computational Biology and Health Informatics (ACM BCB), Aug 20-23, 2017, Boston, MA, USA.
- Program Committee Member, 10<sup>th</sup> International Symposium on Health Informatics and Bioinformatics HIBIT 2017, Jun 28-30, 2017, Guzelyurt, Cyprus.
- Program Committee Member, 8<sup>th</sup> Conference on High Throughput Sequencing Analysis and Algorithms (HiTSeq2017), Jul 21-25, 2017, Prag, Czech Republic.
- Program Committee Member, IEEE International Workshop on Machine Learning for Signal Processing, Sep 17-20, 2015, Boston, USA.
- Scientific Committee Member, 9<sup>th</sup> International Symposium on Health Informatics and Bioinformatics HIBIT 2015, Oct 16-17, 2015, Mugla, Turkey.
- Organizer, Computational Aspects of Biological Information 2010, Cambridge, Dec 9, 2010, MA, USA.

### Study Sections

- Turkiye Genom Projesi Hazirlik Calistayi, Istanbul, Turkey, Feb12-13, 2016.
- Turkiye Genom Projesi Bioinformatik Altgrubu Hazirlik Calistayi, Ankara, Turkey, Jun 14, 2016.
- Hacettepe Universitesi, Ar-Ge Strateji Belgesi Hazirlanmasi Molekuler Tip Alani Calistayi, Dec 6, 2016, Ankara, Turkey.

### Reviewer

- Bioinformatics, Journal of Artificial Intelligence in Medicine, Turkish Journal of Electrical Engineering and Computer Sciences, BMC Evolutionary Biology, Academic Platform Journal of Engineering and Science, ISMB/ECCB, HIBIT, NIPS Computational Biology Workshop, Women In Machine Learning.

### Other

- External Stakeholders Committee Member, Computer Science and Engineering Program, Sabanci University Turkey, 2014– 2017.
- Jury Member for Serhat Ozyar Yilin Genc Bilim Insani Thesis Award.

### Languages

English (advanced), Turkish (native).