PINAR DEMETCI

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EDUCATION

Ph.D. Computational Biology
Brown University 2018 - 2023 (Expected)
GPA: 3.90/4.00

M.Sc. Computer Science
Brown University 2018 - 2020 (Expected)
GPA: 4.00/4.00

B.Sc. Bioengineering
Olin College of Engineering 2013 - 2017
GPA: 3.67/4.00

AWARDS

2020 **ICML WBC Best Poster Award**
Awarded for research project

2020 **ICML WBC Fellowship**
Conference fellowship awarded to cover attendance fees

2016 **MCM/ICM Meritorious Winner**
Interdisciplinary Contest in Mathematical Modeling (top 10%)

2015-2017 **Olin Alumni Merit Scholarship**
Award covered miscellaneous living costs on campus

2013-2017 **Sunlin Chou International Scholarship**
Award covered 50% of tuition

2013-2017 **Olin Merit Scholarship**
Award covered 50% of tuition

2013 **Honorable Mention**
First Step to Nobel Prize in Physics Research Project Contest

2013 **First Place**
MEF Research Project Contest

TEACHING EXPERIENCE

Grad. Teaching Assistant **Spring 2019**
CSCI2820 Advanced Algorithms in Comp. Bio. & Medical Bioinfo. at Brown University

Underg. Teaching Assistant **Fall 2016**
AHSE1515 Products & Markets at Olin College

SCI1240 Designing Better Drugs at Olin College

COMMUNITY SERVICE & MEMBERSHIPS

2020 - **Ph.D. Admissions Committee**
Computational Biology Program at Brown University

2020 **Reviewer for MLCB Conference**
Machine Learning in Computational Biology Conference

2020 - **Peer Mentor for Incoming International Graduate Student**
at Brown University

2020 - **Society for Industrial and Applied Mathematics (SIAM)**
Student member

2018 - **International Society for Computational Biology (ISCB)**
Student Member

2018 - **Models, Inference & Algorithms (MIA) at Broad Institute of MIT and Harvard**
Member

2018 - **Graduate Women in Science and Engineering (GWiSE) at Brown U.**
Student Member

SELECTED EXPERIENCE

Brown University **Sep 2018 - Present**
Graduate Research & Teaching Assistant Providence, RI

Microsoft Research **June 2020 - Sep 2020**
Research Intern (Genomics) Redmond, WA

Massachusetts Institute of Technology **May 2017 - Aug 2018**
Research Associate Cambridge, MA

Olin College of Engineering **Sep 2015 - May 2017**
Undergraduate Research & Teaching Assistant Needham,MA

PUBLICATIONS & PRE-PRINTS

* Denotes equal contribution

6. **P Demetci*** , R Santorella*, B Sandstede, W Stafford Noble, R Singh. Gromov-Wasserstein optimal transport to align single-cell multi-omics data (2020). *bioRxiv.*
5. R Singh, **P Demetci** , G Bonora, V Ramani, C Lee, H Fang, Z Duan, X Deng, J Shendure, C Disteche, W Stafford Noble. Unsupervised manifold alignment for single-cell multi-omics data (2020). *IEEE/ACM Transactions on Computational Biology and Bioinformatics.*(in press)
4. B Alpay*, **P Demetci*** , S Istrail,D Aguiar. Combinatorial and statistical prediction of gene expression from haplotype sequence (2020). *Bioinformatics.*36:Supplement-1: i194-i202.
3. **P Demetci** , W Cheng, G Darnell, X Zhou, S Ramachandran, L Crawford. Multi-scale genomioc inference using biologically annotated neural networks (2020). *bioRxiv.* (currently under review at *Nature Communications).*
2. D Parker*, **P Demetci*** , G W Li. Rapid accumulation of motility-activating mutations in resting liquid culture of Escherichia coli (2019). *Journal of Bacteriology.* 201(19):e00259-19
1. **P Demetci** , C Nichols, Y V Zastavker, J D Stolk, A Dillon, M Gross. Externalization and internalization in the classroom: How do they emerge and why is it important? (2016). *IEEE Frontiers in Education Conference*

SELECTED CONFERENCES & INVITED TALKS

* Denotes equal contribution, Presenters underlined

2020 **Machine Learning in Computational Biology: Oral Presentation** (Acceptance rate: 15%)
Gromov-Wasserstein optimal transport to align single-cell multi-omics data
P Demetci* , R Santorella*, B Sandstede, W S Noble, R Singh

2020 **Workshop on Optimal Control, Optimal Transport**
University of Minnesota - Institute for Mathematics and Its Applications
Gromov-Wasserstein optimal transport to align single-cell multi-omics data
P Demetci* , R Santorella*, B Sandstede, W S Noble, R Singh

2020 **ICML Workshop on Computational Biology: Spotlight Talk & Poster** (Acceptance rate: 21%)
Gromov-Wasserstein optimal transport to align single-cell multi-omics data
P Demetci* (spotlight), R Santorella* (poster) , B Sandstede, W S Noble, R Singh

2020 **ISMB (ML in CSB Track): Spotlight Talk & Poster** (Acceptance rate: 25%)
Gromov-Wasserstein optimal transport to align single-cell multi-omics data
P Demetci*(poster), R Santorella* (spotlight) , B Sandstede, W S Noble, R Singh

2020 **ISMB Proceedings: Oral Presentation** (Acceptance rate: 19%)
Combinatorial and statistical prediction of gene expression from haplotypes
B Alpay*, **P Demetci*** , S Istrail, D Aguiar

2020 **ACM-BCB Proceedings: Oral Presentation** (Acceptance rate: 27%)
Unsupervised manifold alignment for single-cell multi-omics data
R Singh, **P Demetci** , G Bonora, V Ramani, C Lee, H Fang, ..., W Stafford Noble.

2020 **Computational Intelligence & Applications: Invited Talk** (at Brown U.)
Gromov-Wasserstein optimal transport to align single-cell multi-omics data
P Demetci* , R Santorella*, B Sandstede, W S Noble, R Singh

2019 **CCV-Con: Invited Talk** (at Brown U.)
Biologically Annotated Neural Networks for Multi-Scale Genomic Discovery
P Demetci , W Cheng, S Ramachandran, L Crawford

2016 **Frontiers in Education (FIE): Oral Presentation** (Acceptance rate: 48%)
Internationalization and Externalization in the Classroom:
P Demetci , C Nichols, YV Zastavker, JD Stolk, A Dillon, M Gross