Devang Thakkar
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Education

- **Duke University** — Durham, NC
  PhD in Computational Biology and Bioinformatics — *Aug 2018 - Present*
  - Second year PhD student in the Dave Lab studying the cell of origin in cancers
- **Indian Institute of Technology Bombay** — Mumbai, India
  Bachelor and Master of Technology in Mechanical Engineering — *Jul 2013 - Jul 2018*
  - Minor in Biosciences and Bioengineering
- **CentraleSupélec** — Paris, France
  Échange Académique Ingénieur (Semester Exchange Program) — *Aug 2016 - Jan 2017*

Research

- **Clonal Analysis of Cardiomyocyte Growth and Regeneration**
  Advisors: Ed Iversen and Ravi Karra — *May 2019 - Aug 2019*
  - Created a statistical model to identify the distribution of proliferating cardiomyocyte cells in injured hearts
  - Worked on understanding the relationship between cardiomyocyte proliferation and the vasculature of the heart
- **Computational Reconstruction of Immunoglobulin Sequences in Cancers**
  Advisor: Sandeep Dave — *Jan 2019 - Apr 2019*
  - Compared existing tools for clonotype detection from Whole Genome Sequencing (WGS) data
  - Created a pipeline for identification of tumor clonotype from WGS data of 101 Burkitt Lymphoma samples
- **Understanding Non-coding Transcripts in Yeast**
  Advisor: Alex Hartemink — *Sep 2019 - Dec 2019*
  - Worked on understanding how the expression of non coding transcripts depends on adjacent protein coding genes
- **Modeling the Optimal Propensity of Lysogeny for Co-existing Populations**
  Advisor: Supreet Saini — *Jun 2017 - May 2018*
  - Estimated the optimal lysogenic propensity for phages as a function of the environmental stresses for individual species and the multiplicity of infection in order to maximize coexistence
- **Selecting Features from Sample Specific Coexpression Networks**
  Advisor: Chloé-Agathe Azencott — *Dec 2016 - Mar 2017*
  - Reviewed algorithms for constructing networks that incorporate gene expression with protein interaction networks

Selected Publications

- Shingleton JR, Wang J, Baloh C, Dave T, Davis N, Happ L, Jadi O, Kositsky R, Li X, Love CL, Panea RI, Qin Q, Reddy A, Singhi N, Smith E, **Thakkar D**, and Dave SS. (2020) Non-Hodgkin Lymphomas: Malignancies Arising from Mature B Cells. *Leukemia and Lymphoma: Molecular & Therapeutic Insights* (In press)
- Panea RI, Love CL, Shingleton JR, Reddy A, Bailey JA, Moormann AM, Otieno JA, Ong'echa JM, Oduor CI, Schroeder KMS, Masalu N, Chao NJ, Agajanian M, Major MB, Fedoriw Y, Richards KL, Rymkiewicz G, Miles RR, Alobeid B, Bhagat G, Flowers CR, Ondrejka SL, Hsi ED, Choi WWL, Au-Yeung RKH, Hartmann W, Lenz G, Meyerson H, Lin YY, Zhuang Y, Luftig MA, Waldrop A, Dave T, **Thakkar D**, Sahay H, Li G, Palus BC, Seshadri V, Kim SY, Gascoyne RD, Levy S, Mukhopadhyay M, Dunson DB, Dave SS. (2019) The whole genome landscape of Burkitt lymphoma subtypes. *Blood* DOI: 10.1182/blood.2019001880
- **Thakkar D**, and Saini S. (2018) Estimating Optimal Lysogenic Propensity for Viruses in Stressed Environments. *BiorXiv* DOI: 10.1101/321372