# daniel li

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## education

**columbia university**   fall '18 - ip
  **p.hd.** in computer science
  **area** in machine learning &
    computational biology
**uc - berkeley**   fall '17 - spring '18
  **m.sc.** in electrical engineering
    computer science
**uc - berkeley**   fall '14 - spring '17
  **b.sc.** in electrical engineering
    computer science

## skills

**programming**
python : java : r : latex : html
**frameworks | libraries | misc.**
pytorch : tensorflow : numpy :
sklearn : git/vcs : hadoop
**mathematics & statistics**
statistics : algebra : topology

## coursework

**graduate**
algorithms & uncertainty
beyond worst case analysis
combinatorial algorithms
computational geometry
deep learning
statistical inference
biostatistics

## awards

nvidia grant
iclr travel award
dean's honors
mit think award

## research experience

**pe'er** group @ columbia university          spring 2018 : **present**
research assistant
  - use probabilistic methods and computer vision to detect and classify cell types
  - joint collaboration with memorial sloan kettering cancer center

**pachter** group @ uc - berkeley          fall 2015 : **spring 2018**
research assistant
  - research in approaches to rna-sequencing with features in abundance estimation, transcript annotation difficulties, differential expression

**rao** group @ uc - berkeley          fall 2016 : **spring 2018**
research assistant
  - investigation on gene feature identification and accurate dimensionality reduction through recurrent memory autoencoders

## industry experience

**alpha echelon** group          fall **2017** : **present**
co-founder (4), managing partner
  - manage **$6m usd** in various sectors and perform general contracting work with projected q1 2018 revenue at **$3m usd**

**nec** research institute          summer, fall **2017**
research scientist intern
  - research in adaptive memory networks with a focus in faster inference. workshop paper for **nips '17** & **iclr '18**
  - **first undergraduate** researcher in ph.d level work

**factual** inc.          summer **2016**
software engineering intern
  - worked on probabilistic deduplication, entity resolution, and record linkage using latent dirichlet allocation and non-parametric bayesian inference

## teaching experience

**cs 160** hci @ uc - berkeley          fall 2017 : **present**
graduate student instructor
  - create content and lead section discussion group of 30 students on a weekly basis
  - hold office hours and grade student work

## publications

  - **daniel li**, asim kadav. *adaptive memory networks*, **nips 2017** workshop: deep learning at supercomputer scale & **iclr 2018** workshop