

# Welcome!



Beth Israel Lahey Health   
Beth Israel Deaconess Medical Center

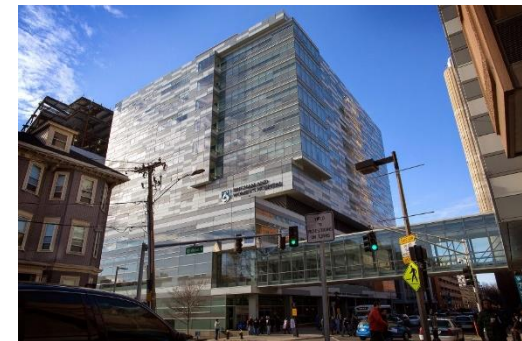
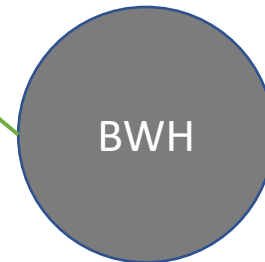
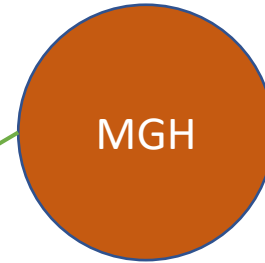
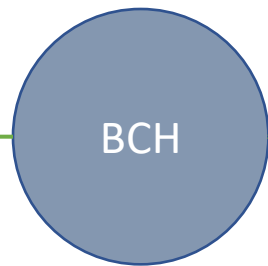


**BRIGHAM HEALTH**



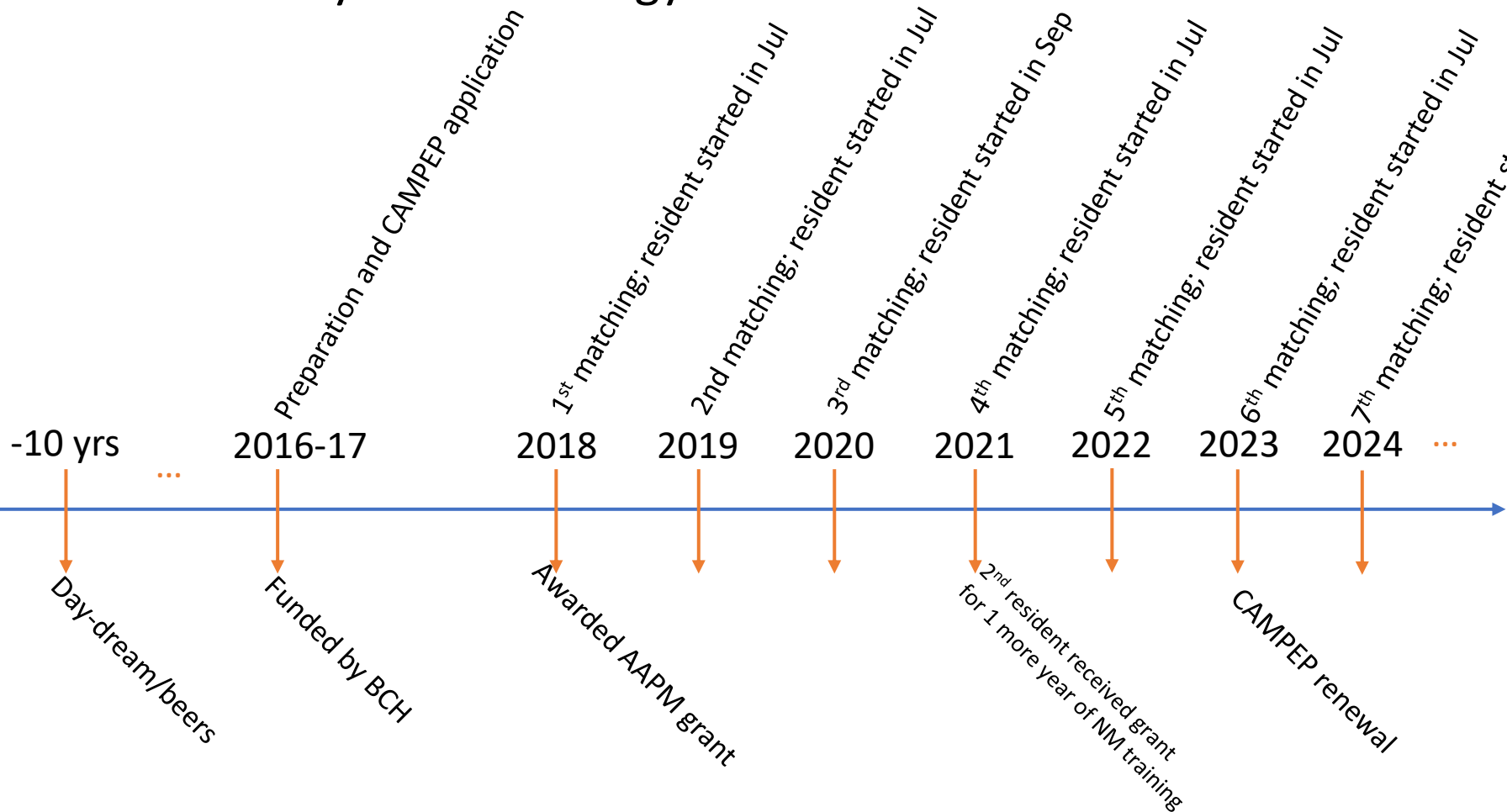
# Joint Dx/NM MP Residency Program at BCH

- Based at BCH, and with rotations at BIDMC, BWH, and MGH



# Joint Dx/NM MP Residency Program at BCH

- Started as a shared dream about 10 years ago
- Funded by BCH Radiology Foundation



# Joint Dx/NM MP Residency Program at BCH

- Medical physics faculty from 4 hospitals, joined by enthusiasm and love



# Boston Children's Hospital

## Rotations:

- *Radiation safety*
- *Fluoroscopy, Advanced IR*
- *CT, Advanced CT*
- *Advanced MR*
- *Informatics, Advanced Informatics*
- *Ultrasound, Advanced Ultrasound*



Fred Fahey



Da Zhang



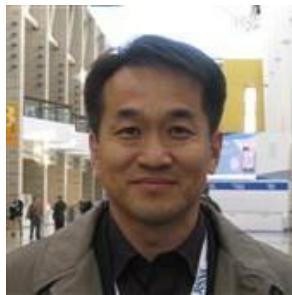
Bob Mulkern



Simon Warfield



Peng Sun



Don-Soo Kim



Andrew Najjar



# Massachusetts General Hospital (MGH)

## Rotations:

- *Nuclear Medicine*
- *Advanced NM*
- *Advanced CT (Dosimetry and IQ)*



Hamid Sabet



Bob Liu



Kai Yang



Xinhua Li



# Beth Israel Deaconess Medical Center (BIDMC)

## Rotations:

- *Mammography and Radiography*
- *CT*
- *Informatics*
- *Hybrid Imaging / Theronostics*



Chris MacLellan



Matt Palmer



Edmond Olguin



# Brigham and Women's Hospital (BWH)

## Rotations:

- *Nuclear Medicine*
- *Advanced NM*
- *MRI*



Georgeta Mihai



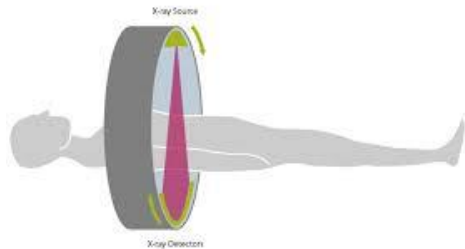
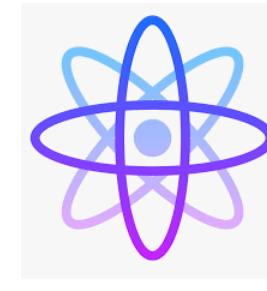
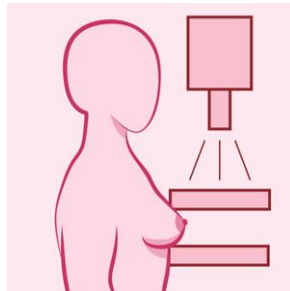
Benjamin Auer





# Dx MP Track

- Dx Imaging Program, 8 rotations (Rad Safety, Radiography/Mammo, Fluoro/IR, CT, NM, MR, Informatics, US)
  - Last 8 months tailored to interest of resident (two advanced rotations)
  - Eligible for ABR Dx Medical Physics board upon completion
- Advanced CT
  - Advanced Breast Imaging
  - Advanced MRI
  - Advanced Informatics
  - Advanced Reconstructions
  - Advanced FL/IR
  - Hybrid Imaging



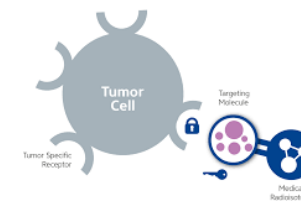
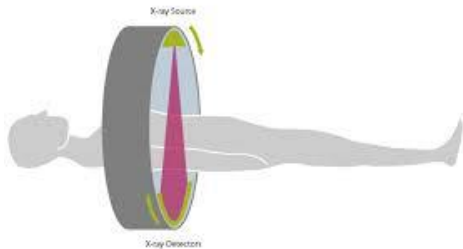
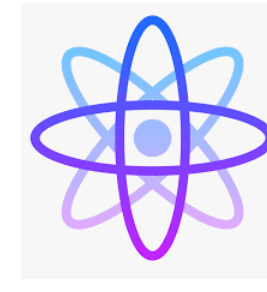
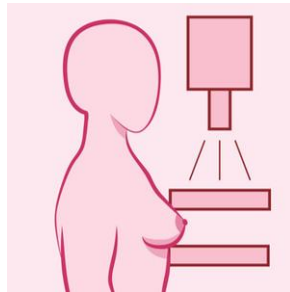
ULTRASOUND

# NM MP Track

- NM Imaging Program, 8 rotations (Rad Safety, Radiography/Mammo, Fluoro/IR, NM, CT, MR, Informatics, Radionuclide Therapy)
- 2<sup>nd</sup> year dedicated to NM with in-depth training
- Eligible for ABR Nuclear Medical Physics board upon completion

In-depth training in

- Radiopharmacy
- NM Non-Imaging Equipment
- NM Imaging Equipment
- Radionuclide Therapy
- Clinical Studies
- QC tasks performed solo
- Advanced topics in Kinetic Modeling
- Advanced topics in Tomographic Reconstruction
- Shielding
- Hybrid imaging



# Graduates and Trainees from Our Residency Program

- Christiane Burton, PhD, DABR
  - Diagnostic Medical Physicist, Northwestern University
- Reyhaneh Nosrati, PhD, DABR
  - Senior Machine Learning Data Scientist, Johnson & Johnson
- Andrew LaBella, PhD, DABR
  - Medical imaging physicist, SUNY Stonybrook
- Renxin Chu, PhD
  - Medical imaging physicist, Univ. of Virginia
- Sang Hoon Chong, PhD
  - Senior resident
- Peter Jeon, PhD
  - Junior resident

# CRL

Computational Radiology Laboratory at Boston  
Children's Hospital

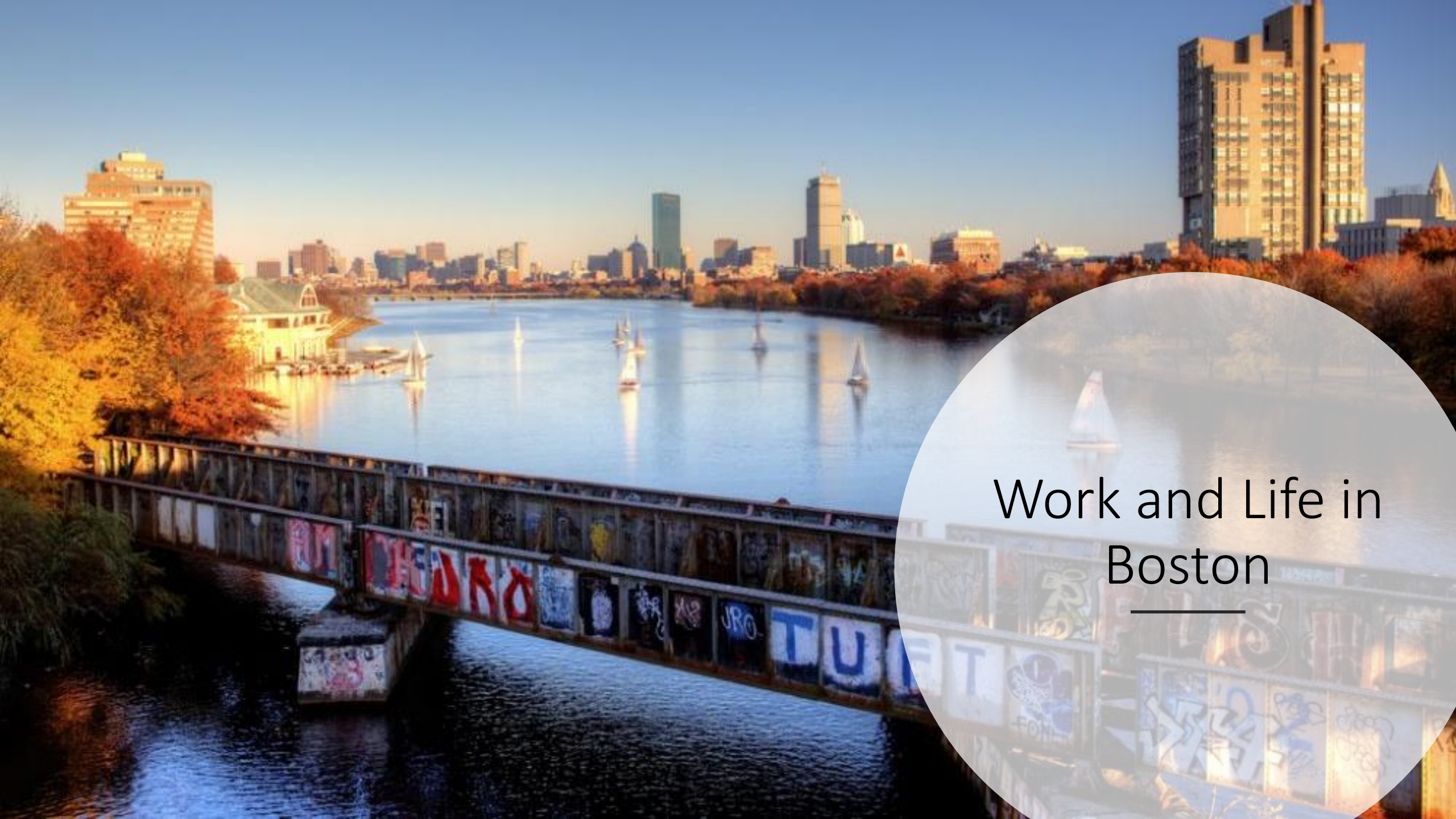


## Affiliated/Supporting Facilities



# Online Resources about Our Program

- Virtual tour about graduate medical training at Boston Children's Hospital: <https://youtu.be/BOJU31vOROG>
  - Webpage of our program: <https://on.bchil.org/38rWVTK>
- The Gordon Center for Medical Imaging at MGH, where our Nuclear Medicine and Advanced Nuclear Medicine rotations are hosted
  - Webpage: <https://gordon.mgh.harvard.edu>
- BCH SIMPeds3D Printing lab: <https://youtu.be/QZ4KLzhL6tw>
- BCH Computational Radiology Laboratory:
  - <http://www.crl.med.harvard.edu>
  - <https://www.childrenshospital.org/research/labs/computational-radiology-laboratory>



# Work and Life in Boston

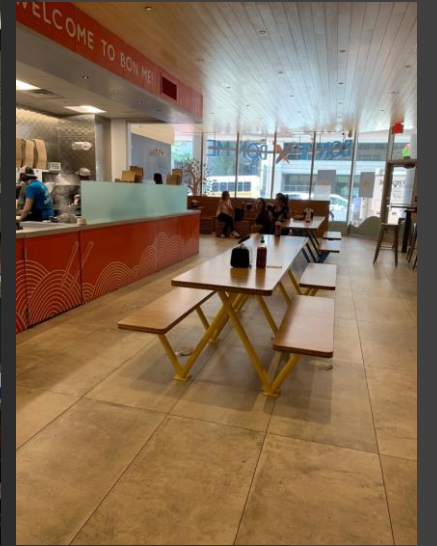
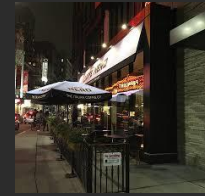
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Residents' offices at  
Longwood Center



# Cafés around the Longwood Area





# Walker's Paradise ?

Fenway - Kenmore - Audubon Circle - Longwood, Boston, 02115

Commute to **Downtown Boston**

9 min 21 min 14 min 46 min [View Routes](#)

[Favorite](#) [Map](#) [Nearby Apartments](#)

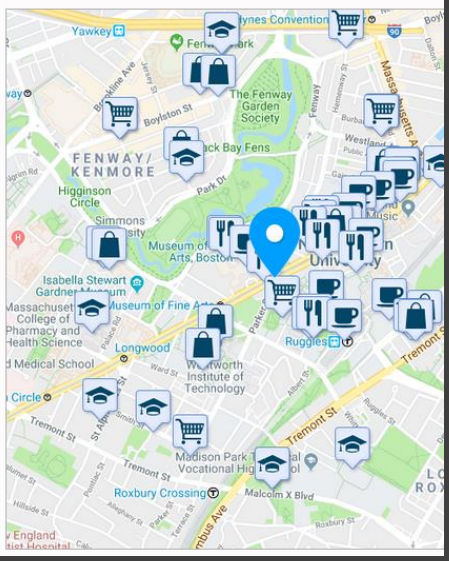
[Looking for a home for sale in Boston?](#)

**Walk Score**  
**95**  
Walker's Paradise  
Daily errands do not require a car.

**Transit Score**  
**96**  
Rider's Paradise  
World-class public transportation.

**Bike Score**  
**90**  
Biker's Paradise  
Daily errands can be accomplished on a bike.

[About your score](#)



# Commuting and Transportation

- "Walker/Rider/Biker's Paradise"
- Free Shuttle between MGH and Longwood area
- Parking available for residents at discounted price

[Who We Are](#) [How We Lead](#) [Find & Get Care](#) [Patient Information](#) [COVID-19](#)

TransLoc | Transit Visualization

Route Display: all | none

Routes

- 1 BWH - BWFH
- 2 BWH - BWH Crosstown Garage
- 3 BWH - BWH 850 Boylston St.
- 4 BWH - 65 Lansdowne St.
- 5 Charlestown Health Ctr - Parking
- 6 Employees: BWH - 254 Second Ave
- 7 Employees: Assembly - BWH
- 8 Employees: Assembly - MGH
- 11 MGH - BWH
- 12 MGH - Charlestown Health Ctr - North End Waterfront Health Ctr
- 13 MGH - Charlestown Navy Yard (Weekday)
- 15 MGH - Chelsea Health Ctr
- 17 MGH - E Boston Health Ctr
- 18 MGH - Everett Health Ctr
- 19 MGH - Nashua St.
- 20 MGH - Parking Lots

**Free (private) shuttle bus between BWH and MGH**



# Rentals near Longwood Medical Area

## Example places to rent

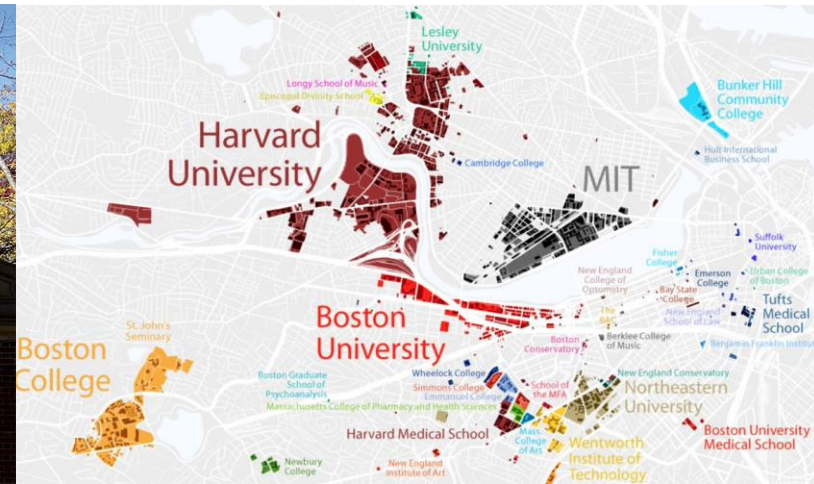
- Fenway / Longwood
- Brigham Circle
- Jamaica Plain
- Along the Green Lines (subway B, C, D, E)



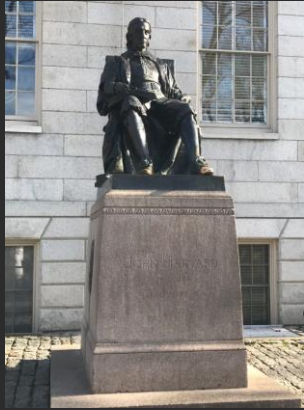
# Boston is a city for students and trainees

## Some colleges and medical schools

- Harvard University/Medical School
- Boston University/Medical School
- Tufts University/Medical School
- Northeastern University
- MIT
- Suffolk University
- UMass Boston
- Boston College
- Simmons College
- Emmanuel College
- Emerson College
- Mass College of Pharmacy and Health Science
- Mass College of Art
- Berklee College of Music
- New England Conservatory of Music



# Boston is a gorgeous city with many attractions!



HOME OF THE BOSTON RED SOX™



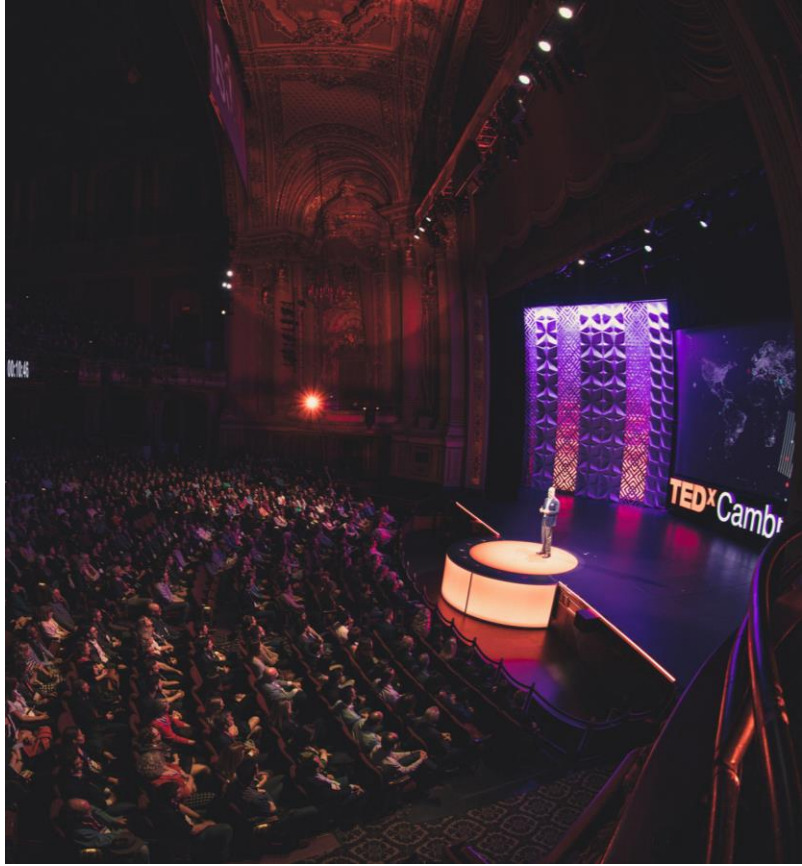
## Attractions: Sports

- Red Sox
- Patriots
- Celtics
- Bruins



## Attractions: Art and Music

- Museum of Fine Arts
- Gardner Museum
- Boston Symphony Orchestra
- Boston Pops Orchestra



Boston is also a dynamic city full of professional events!

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