UPMC Division of Musculoskeletal Imaging

- Numbers & Experience:
  - 5 MSK fellowship trained radiologists
    - Years post fellowship
      - 2-5 yrs x 2
      - 5-10 yrs x 1
      - 10+ yrs x 2
  - Diverse Training Background
    - UPMC x 2
    - University of Utah x 1
    - Cleveland Clinic x 1
    - Armed Forces Institute of Pathology x 1
  - National Leadership Presence
    - Dr. Andrews: Former SSR President 2010-2012
    - Dr. Cordle: Research Committee Chairman 2018-2019
MSK Imaging Fellowship Training at UPMC

• Covers all aspects of musculoskeletal radiology: trauma, sports medicine, arthroplasty imaging, musculoskeletal infections, tumors, and rheumatology

• Procedures
  • Fluoroscopy-guided joint injections, aspirations, arthrograms
  • CT-guided bone and soft tissue biopsies, aspirations, joint injections, aspirations, arthrograms

• Includes training in musculoskeletal ultrasound
  • How to perform and interpret diagnostic musculoskeletal ultrasound
  • Ultrasound-guided procedures (e.g. soft tissue biopsies, aspirations, injections)
MSK Imaging Fellowship Training at UPMC

- Exposure to high-level sports imaging
  - Pittsburgh Penguins – NHL
  - Pittsburgh Steelers – NFL
  - NCAA Division-I athletes from the University of Pittsburgh and athletes from other local colleges and universities
  - National and international referrals to the UPMC Department of Orthopedics

- Collegial work environment within the division, department of radiology, and referring providers
UPMC Presbyterian and Montefiore

- Presbyterian Campus of the UPMC Health System flagship UPMC Presbyterian-Shadyside
- Located in the Oakland neighborhood of Pittsburgh next to the main campus of the University of Pittsburgh
- 900 beds
- Fellows will be exposed to all aspects of MSK radiology with high volume orthopedic trauma and spine, rheumatology, infections
- MSK Ultrasound
- 5 MRIs, 9 CTs, multiple fluoroscopy and ultrasound suites
Shadyside Campus of the UPMC Health System flagship UPMC Presbyterian-Shadyside

- Located in the Shadyside neighborhood of Pittsburgh
- 520 beds
- Fellows will be exposed to all aspects of MSK radiology with high volumes of tumor imaging and biopsies, arthroplasty imaging, and infections
- MSK Ultrasound
- 3 MRIs, 4 CTs, multiple fluoroscopy and ultrasound suites
UPMC Freddie Fu Sports Medicine Center

- Part of the UPMC Rooney Sports Complex, one of the leading sports medicine facilities in the United States
- Located in Pittsburgh’s South Side neighborhood
- Home of the UPMC Sports Medicine Program and houses the training facilities of the Pittsburgh Steelers and University of Pittsburgh Panthers football teams
- Brings together experts in orthopedics, radiology, physical therapy, sports concussion, nutrition, etc.
- Fellows will be exposed to high volume sports imaging and perform fluoroscopic-guided arthrograms and injections
- Houses an MRI, fluoroscopy suite, digital radiography, multiple examination rooms, training and rehabilitation gym, full-sized therapeutic pool
Fellows will be exposed to high volume sports imaging and perform fluoroscopic-guided arthrograms and injections.

Houses an MRI, fluoroscopy suite, digital radiography, multiple examination rooms, training and rehabilitation gym, full-sized therapeutic pool.
UPMC Lemieux Sports Complex

- Modeled after the Freddie Fu Sports Medicine Center as a comprehensive facility for UPMC Sports Medicine
- Located in Cranberry Township, north of Pittsburgh
- Primary training site for the Pittsburgh Penguins
- Brings together experts in orthopedics, radiology, physical therapy, sports concussion, nutrition, etc.
• Another site where fellows will encounter high volume sports imaging and perform fluoroscopic-guided arthrograms and injections

• Houses an MRI, fluoroscopy suite, digital radiography, multiple examination rooms, training and rehabilitation gym, two full-size ice hockey rinks, café, sprinting track, batting cages
Located adjacent to UPMC Shadyside is Western Pennsylvania’s only Comprehensive Cancer Center designated by the National Cancer Institute and provides the highest level of cancer care and cutting-edge cancer research. The facility houses a 3T MRI unit, as well as CT, radiography, and PET/CT units. The fellows will be exposed to MSK tumor imaging and MSK imaging of cancer patients.
Other Service Locations
(Covered Remotely)

UPMC Magee-Women’s Hospital
Located in Pittsburgh’s Oakland neighborhood is a 360-bed world-class center for women’s health recognized as a National Center of Excellence in Women’s Heath by the U.S. Department of Health and Human Services. It serves as the primary teaching facility for obstetrics, gynecology, gynecologic oncology, and neonatology for the UPMC Health System and has the largest neonatal intensive care unit in Pennsylvania.

UPMC Magee - Bone and Joint Center
Provides expertise and specialized care for patients with bone and joint disorders, particularly affecting the hips and knees. The fellows will encounter high volumes of arthroplasty imaging.
Other Service Locations
(Covered Remotely)

UPMC Bethel Park / South Hills
Houses multiple outpatient orthopedic, sports medicine, and various medical clinics and houses an MRI, as well as CT, fluoroscopy, radiography units.

Our division also covers various orthopedic, sports medicine, and other medical clinics in the Kaufmann and Falk medical buildings located in the Oakland campus of UPMC, which house digital radiography units.
Call

• Fellows take call for emergent procedures (e.g. joint aspirations for septic arthritis) and for protocols for complex MRI cases starting at 5pm on weekdays and throughout the weekend.

• Call is divided evenly between the fellows

• Fellows agree among themselves when the call week starts at the beginning of the year and the division of holiday call
Conferences

• Fellows attend the following weekly/monthly conferences:
  • Orthopedics-Pathology-Radiology Tumor Board
  • Orthopedics-Sports Medicine Conference
  • Orthopedics-MRI Correlation Conference
  • Rheumatology-Radiology Conference
  • MSK Radiology Division Conference
  • MSK Ultrasound Hands-On Conference
• Fellows also attend the MSK didactic series for the radiology residents. If not on-site, the fellows have the option to attend virtually through Microsoft Teams.
Salary & Benefits

- Fellows are Clinical Instructors employed by the University of Pittsburgh Physicians (UPP) and receive the same benefits as the attending physicians:
  - Vacation / Personal Time Off (PTO) Days
  - Paid Holidays
  - Health
  - Dental
  - Vision
  - Retirement
Salary & Benefits

• Fellows also receive the same amount of continuing medical education (CME) funds and the same amount of time off for CME as attendings.

• Additional funds/support for presenting at national/international conferences can be requested from the radiology department.

• Information about fellow salary and detailed information about benefits will be provided on interview days.

• Paid moonlighting opportunities are available within the radiology department to augment the fellow salary.
After Fellowship

### 2016-2017
- **AH, MD** – Academics (PA)
- **JL, MD** – Private Practice (DE)
- **MN, MD** – Private Practice (PA)
- **JP, DO** – Private Practice (PA)

### 2017-2018
- **DC, MD** – Private Practice (PA)
- **JW, MD** – Private Practice (CA)
- **JR, MD** – Private Practice (VA)
- **RP, MD** – Private Practice (PA)

### 2018-2019
- **CG, DO** – Private Practice (CT)
- **LM, DO** – Private Practice (FL)
- **JVB, MD** – Private Practice (FL)
- **AE, DO** – Private Practice (FL)

### 2019-2020
- **IR, DO** – Private Practice (PA)
- **ZM, DO** – Academics, (NJ)
- **SK, DO** – Private Practice (IL)
Pittsburgh is a medium-sized city located in Southwestern Pennsylvania at the confluence of the Allegheny, Monongahela, and Ohio Rivers. Known as the “Steel City” as the area was once one of the leading steel producers and a hub of heavy industry, the city has successfully revitalized itself and diversified its economy. Pittsburgh is now a major center in the education, healthcare, and technology industries.
Pittsburgh Attracts

World-class universities
Carnegie Mellon University

Home to Fortune 500 Companies

National & International Corporations with Regional Headquarters or Satellite Facilities in Pittsburgh
Pittsburgh is Affordable

Pittsburgh offers access to arts, culture, entertainment, sports, and the outdoors all at a lower cost of living compared with other cities.

Cost of Living

- **New York, NY (Manhattan)**: 148% Higher
- **Boston, MA**: 46%
- **Washington DC Area**: 60%
- **Chicago, IL**: 19%
- **Los Angeles, CA**: 42%
- **San Francisco, CA**: 95%
- **Seattle, WA**: 26%
Pittsburgh is Affordable

Many fellows and residents purchase homes or rent luxury apartments during their training at UPMC.

**Housing Cost Difference**

<table>
<thead>
<tr>
<th>Location</th>
<th>Cost Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>New York, NY (Manhattan)</td>
<td>74% Higher</td>
</tr>
<tr>
<td>Boston, MA</td>
<td>29%</td>
</tr>
<tr>
<td>Washington DC Area</td>
<td>36%</td>
</tr>
<tr>
<td>Chicago, IL</td>
<td>13%</td>
</tr>
<tr>
<td>Los Angeles, CA</td>
<td>20%</td>
</tr>
<tr>
<td>San Francisco, CA</td>
<td>35%</td>
</tr>
<tr>
<td>Seattle, WA</td>
<td>8%</td>
</tr>
</tbody>
</table>

*Pay off student debt faster*
*Start building equity earlier*
*Money goes farther for raising a family*
*More to spend for hobbies and interests*
Pittsburgh is for sports fans. Even if you are not a Pittsburgh fan, there’s a good chance we will host your favorite team at some point during your training.
Pittsburgh Outdoors

Lots of parks, trails, and outdoor spaces within the city

- Riverview Park
- Highland Park
- Frick Park
- Point State Park
- Summer movies at Schenley Park
- Schenley Park
Pittsburgh Outdoors

Even more outdoor spaces a short drive within Allegheny County and the surrounding area

South Park – Bethel Park Township
Covered picnic areas, wave pool, horse stables, fairgrounds

North Park – North Allegheny County
Largest park in the county. Hiking trail, lake with trout fishing, off-leash dog park, kayaking
Like to Run?

Pittsburgh Marathon, Half-Marathon, & Marathon Relay – First Sunday in May

Pittsburgh Ten Miler – November

Great Race (10K, 5K) – Last Sunday of September
Food & Drink For Every Taste & Budget

Noodlehead - Shadyside

La Gourmandine Bakery – Multiple Locations

Gaucho Parilla Argentina - Downtown

Church Brew Works - Lawrenceville

Smallman Galley – Strip District
Pittsburgher – “Put some fries on it”

Joe Primanti developed the sandwich during the Great Depression. He placed the fries in the sandwich and wrapped everything in newspaper so the customer can eat everything while driving and not spill food on their lap. The original location in Pittsburgh’s Strip District is still open, 24 hours/day.
Something For Everyone

Phipps Conservatory & Botanical Gardens
Something For Everyone

Andy Warhol Museum

Carnegie Museum of Natural History

Carnegie Museum of Art
Something for Everyone

Picklesburgh – July.
Pickles take over the Roberto Clemente Bridge. You’ll find: pickle-flavored oreos, pickle-stuffed pretzels, pickle sushi, chocolate-covered pickles, pickle-themed cocktails, even a pickle-juice drinking contest.

Anthrocon – July
Furries congregate in Pittsburgh for the second largest furry convention in the world.

Pittsburgh Pirates Fireworks Nights
Enjoy a game AND fireworks on select Friday and Saturdays games during the season.
Something for Everyone

Kennywood – West Mifflin, PA
Our local theme park. Pittsburgh’s Pride & Joy.

Vintage Grand Prix
Two weeks of events such as a black-tie gala and classic car shows lead up to race day weekend at Schenley Park.

Three Rivers Regatta – August
Jet ski stunts, boat parades, F1 boat racing, mini food truck rally
Why UPMC for MSK Imaging Fellowship?

• Excellent training
  – Exposure to tons of cases covering all aspects of MSK radiology
  – Abundance of procedural work to perfect your procedural skills

• Great people
  – We are a good-natured, cooperative division
  – Collegial radiology department, referring providers, and staff

• Pittsburgh
  – Lots to do and see
  – Affordable

• Post-fellowship success and jobs
Thank You