

Orthopedics Research Resident Training Program

The goal of the Research Residency position is to provide enhanced research training to individuals who wish to improve their abilities and acumen in musculoskeletal research. This position is particularly suitable to those who may wish to pursue an academic career or become a clinician scientist.

Support is provided for completion of one or more cutting-edge, high impact research projects in the context of orthopedic residency training.

Program Benefits

- broad exposure to state-of-the-art techniques in orthopedic research
- dedicated research experience beyond what can take place in 5 years of clinical training
- stronger fellowship application through scientific training and publication
- opportunities to present your research locally, nationally, and internationally
- formal research education and scientific training curriculum
- intermittent clinical and call responsibilities to maintain hands-on skills training in scientific study design and grant applications

State of the Art Resources

- clinical motion analysis laboratory
- biomechanical testing lab
- histology core
- tissue biobank
- microCT imaging core



The 6-year research track allowed me to dedicate a year to focus on furthering my research and gaining experience in the field. I had enough clinical responsibilities to maintain my surgical skills while also having the freedom to work on research and travel for presentations and courses. **This was invaluable preparation for fellowship applications and a future career in academics.**

Kylie Shaw, MD
Class of 2026



University of Colorado
Anschutz

Year 1

- 2-3 week research immersion to identify potential projects & mentors
- identify mentors and present project proposal end of year

Years 2 | 3

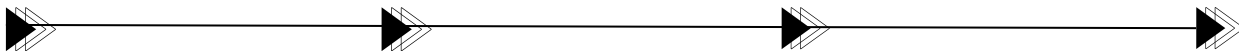
- continue to meet with mentors to develop project(s)
- submit grant application if needed (e.g. OREF)
- submit animal or human protocols (IACUC or COMIRB)
- present updated project proposal to research committees

Year 4

- dedicated research year
- intermittent clinical responsibilities
- write first paper
- present at local & national meetings

Years 5 | 6

- return to full-time clinical training
- wrap up research projects
- present at local & national meetings



OPTION 1 | Research Faculty Mentor

Preferred

Under the mentorship of a research division faculty member, you will conduct a basic, translational, or clinical research project that will take one year to complete.

An additional clinical faculty mentor is encouraged.



With either option, you will interact with a highly productive research team. This collaboration will result in **at least one high impact manuscript** and opportunities for additional first author publications.

OPTION 2 | Clinical Faculty Mentor

With Approval

You will conduct a project that involves collecting and analyzing patient data.

This project will take one year to complete and may involve creating a new study cohort.

You will have at least two mentors: a clinical mentor as your primary and a research-focused mentor.



Funding is available for research studies, publication fees, and travel for presentations at scientific conferences.

Program Leadership

**Director |
Research Resident Curriculum**
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**Chair |
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