

Faculty

Faculty

Staff

Xie George Xu, Professor

RESEARCH

BIO SKETCH

PUBLICATIONS

CONTACT



Faculty Quick Links

- [Brunski »](#)
- [Cooper »](#)
- [Corr »](#)
- [Dai »](#)
- [Dunn »](#)
- [Intes »](#)
- [Ledet »](#)
- [Mehta »](#)
- [Newell »](#)
- [Plopper »](#)
- [Roysam »](#)
- [Spilker »](#)
- [Thompson »](#)
- [Uhl »](#)
- [Vashishth »](#)
- [von Maltzahn »](#)
- [Xu »](#)
- [Yazici »](#)

Related Links

- [Campus Directory»](#)
- [Campus Tour»](#)
- [Directions»](#)

Research Center Affiliations:

- [Multiscale Science and Engineering Center»](#)
- [Center for Biotechnology and Interdisciplinary Studies»](#)
- [Center for Automation Technologies and Systems»](#)

General Areas of Research:

- Nuclear Physics
- Modeling
- Radiation
- Imaging
- Nuclear Science and Technology
- Nanotechnology
- Environmental Health Physics and Radiation Dosimetry
- Image Processing
- Energy
- Biotechnology
- Scientific Computing
- Simulation
- X-Rays

Research Activities:

Xu's research interests are centered around the understanding of scientific principles and the development of engineering applications related to ionizing radiation delivery, measurement, and dosimetry. Our unique contributions to the research areas are represented by:

- Medical image-based Monte Carlo Simulation.
- Radiation Measurement.

These research activities are based on our expertise in gamma ray spectroscopy, Monte Carlo radiation transport simulations, and health/medical physics dosimetry.