Inna Gertsenshteyn

Imaging Scientist

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WORK EXPERIENCE

Graduate Research Assistant

University of Chicago, *Halpern Lab & Chen Lab*
2017– current Chicago, IL

- Coordinated and analyzed multi-modal imaging of tumor hypoxia with ^{18}F-Misonidazole PET, EPRI, and DCE-MRI. Used immunohistochemistry to validate *in vivo* images.
- Research supported by the following NIH grants: T32 Institutional Training Grant (2017-2019), R01 Research Project Grant (2020-present), F31 Individual Research Award (2021-present)
- Developed machine learning algorithm to correct FMISO PET images to more accurately locate tumor hypoxia to improve radiation therapy.
- Research supervisor to four students.

Senior Image Analyst

Invicro, *Image Analysis Department*
2015 – 2017 Boston, MA

- Completed and managed image analysis projects in PET, (dual energy) SPECT, CT, MRI, fluorescence microscopy, and autoradiography.
- Acquired skills in image data quantification and automated image registration/segmentation.
- Completed drafting reports for clients at pharmaceutical companies and research universities.

Research Assistant Intern

CERN, *Crystal Clear Collaboration*
2014 Geneva, Switzerland

- Generated anatomic models for the Endoscopic Time-of-Flight PET & Ultrasound system
- Collected spectral data using ^{137}Cs with various scintillators for modeling simulations.

EDUCATION

Ph.D., Medical Physics
University of Chicago - Chicago, IL
2017-2022 (expected)

B.A., Physics
Boston University – Boston, MA
2011-2015

SKILLS

Computational

MATLAB, Python, PMOD, QuPath, CaseViewer, VivoQuant, LaTeX

Communication

4 Published peer-reviewed articles
16 Conference abstracts
(6 oral, 10 poster)
2 Young Investigator Awards
(1st place)

Leadership

Student Co-President, Graduate Program in Medical Physics (2019-2020)
Student Ambassador of Graduate Peer Mentorship Program (2019-present)

Teaching

Graduate teaching assistant in Mathematics for Medical Physicists, Physics of Medical Imaging I (Lecture and Practicum)