

## Other Support

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### Fessler, J.A.

#### ACTIVE

N004789 (Jeffrey A. Fessler) 9/1/07-12/31/08, NCX to 8/31/09  
GE Medical Systems \$105,451 total 0.45 acad., 0.10 summ.  
X-ray CT image reconstruction using statistical methods  
Major goals. Iterative X-ray CT reconstruction.

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W81XWH-08-1-0273 (Jeffrey A. Fessler (predoctoral fellowship for Kim Khalsa)) 9/1/08-9/30/10  
Army \$64,800 total 0 acad., 0 summ.  
Regularized reconstruction of dynamic contrast-enhanced MR images for evaluation of breast lesions  
Major goals. Predoctoral fellowship for Kim Khalsa

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05-5341 (Jeffrey A. Fessler) 9/1/06-8/31/10  
Univ. of Washington \$45,175 Y3 TC 0.9 acad., 0.2 summ.  
UM subcontract: Quantitative PET/CT oncology imaging  
Major goals. X-ray CT image reconstruction methods for PET/CT scanners.  
Subcontract to NIH 1R01CA115870-01A1, Paul Kinahan P.I.

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Gift 53718 (Satish Narayanasamy) 9/1/08 - 8/31/11  
Intel \$45000 year 1 0 acad., 0 summ.  
Efficient execution of medical imaging applications on the Intel Larrabee system  
Major goals. Parallelizing image reconstruction and registration

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R01 NS 058576 (Doug Noll) 01/01/08-12/31/12  
NIH NS \$535,502 year 2 total 0.9 acad., 0 summ.  
MRI parallel excitation for neuroimaging applications  
Major goals. RF pulse optimization for parallel imaging.

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2008-DN-077-ARI007-02 (Zhong He) 9/1/07-8/31/12  
DNDO \$467,575 total year 2 0 acad., 1 summ.  
Development of real-time imaging and isotope detection algorithms for 3-D position-sensitive semiconductor gamma-ray imaging spectrometers and sensor networks  
Major goals. Imaging spectrometers for homeland security

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1 R21 CA120234-01 (Heang-Ping Chan) 9/1/06-8/31/09  
NIH \$215,772 0.36 acad., 0.08 summ.  
Digital tomosynthesis mammography: Computer-aided analysis of masses  
Major goals. Improving CAD and reconstruction for X-ray tomosynthesis

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2 P01 CA59827-11A1 (Benedick Fraass) 7/1/06-6/30/11  
NIH \$1,561,341 total for Project 2 0.36 acad., 0 summ.  
Optimization of high dose conformal therapy  
Major goals. Improving radiation treatment planning and delivery.

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1 R01 EB002683 (Doug Noll) 09/01/03-7/31/08, NCX to 7/31/09  
NIH \$252,900 Y1 DC 0 acad., 0 summ.  
Elimination of head movement artifact in fMRI  
Major goals. Develop methods to improve head movement correction in fMRI.

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2 R01 EB001994-08 (Yuni Dewaraja) 7/06/07-4/30/11  
NIH NCI \$1,358,640 total 0.27 acad., 0 summ.  
SPECT/CT image-based dosimetry in radionuclide therapy  
Major goals. Quantitative SPECT/CT imaging and dosimetry.

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#### PENDING

1 R01 HL098686-01 (Jeffrey A. Fessler) 1/1/10-12/31/12  
NIH \$? 2.25 acad., 1 summ.  
Model-based image reconstruction for X-ray CT in lung imaging  
Major goals. CT reconstruction methods for low-dose lung scans

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1P01 CA87634-06 (Charles R. Meyer; Project 4 director: J. A. Fessler) 07/01/07-06/30/12  
NIH/NCI \$10,252,733 total 1.8 acad., 0.5 summ.  
Automatic 3D registration for enhanced cancer management / Project 4  
Major goals. Image reconstruction methods for dynamic contrast-enhanced (DCE) MRI of breast cancer.

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#### OVERLAP

There is no duplication or overlap of aims between the proposed project and any of the above projects.

As necessary, effort will be readjusted between academic and summer to ensure that total effort does not exceed 100% in any given month. This minor redistribution of effort over the calendar year will have no detrimental effect on any of the projects.

All projects are located at The University of Michigan.