

CURRICULUM VITAE

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Date of birth September 21, 1983
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Education

2005 – present Ph.D. candidate at the Department of Electrical and Computer Engineering, University of Minnesota, Minneapolis, MN. Research Assistant of Prof. Guillermo Sapiro. M.Sc. degree received in 2008 with a minor in Computer Science.

2003 – 2005 B.Sc. in Computer Science from École Polytechnique, Paris, France.

2002 – 2003 Department of Electrical Engineering, Sharif University of Technology, Tehran, Iran: First two years of undergraduate studies.

2000 – 2001 Studying physics in the preparation program for the International Physics Olympiad, Young Scholars Club, Tehran, Iran.

Employment

2005 – present Research Assistant of Prof. Guillermo Sapiro, Department of Electrical and Computer Engineering, University of Minnesota, Minneapolis, MN.

July 2009 Visiting the Odyssee Project Team, Institut National de Recherche en Informatique et en Automatique (INRIA), Sophia Antipolis, France.

Summer 2008 Visiting Centre d'Enregistrement et de Recherche en Technologies de l'Information et Systèmes (CERTIS), École Nationale des Ponts et Chaussées, Paris, France.

Summer 2006 Internship at the Laboratory of Cell Biology, National Cancer Institute, National Institutes of Health, Bethesda, MD.

Spring 2005 Internship at the Image Processing Laboratory of Prof. Guillermo Sapiro, Department of Electrical and Computer Engineering, University of Minnesota, Minneapolis, MN.

2001 – 2002 Teaching physics in the preparation program for the International Physics Olympiad, Young Scholars Club, Tehran, Iran.

Scholarships/Awards

2005 – present	Research Assistantship of Prof. Guillermo Sapiro.
2003 – 2005	Eiffel excellence scholarship.
2001	Silver medal of International Physics Olympiad.
2000	Gold medal of National Physics Olympiad.

Publications

Journals

I. Aganj, C. Lenglet, G. Sapiro, E. Yacoub, K. Ugurbil, and N. Harel, “Reconstruction of the orientation distribution function in single and multiple shell q-ball imaging within constant solid angle.” submitted, 2009.

I. Aganj, G. Sapiro, N. Parikshak, S. K. Madsen, and P. Thompson, “Measurement of cortical thickness from MRI by minimum line integrals on soft-classified tissue.” *Human Brain Mapping*, vol. 30, no. 10, pp. 3188–3199, 2009.

R. Narasimha, **I. Aganj**, A. Bennett, M. Borgnia, D. Zabransky, G. Sapiro, S. McLaughlin, J. Milne, and S. Subramaniam, “Evaluation of denoising algorithms for biological electron tomography.” *Journal of Structural Biology*, vol. 164, no. 1, pp. 7–17, 2008.

Conference Proceedings

E. Caruyer, **I. Aganj**, C. Lenglet, G. Sapiro, and R. Deriche, “Online orientation distribution function reconstruction in constant solid angle and its application to motion detection in HARDI.” submitted to the *Seventh IEEE International Symposium on Biomedical Imaging*, 2010.

I. Aganj, C. Lenglet, G. Sapiro, E. Yacoub, K. Ugurbil, and N. Harel, “Multiple q-shell ODF reconstruction in q-ball imaging.” in *Proceedings of the Twelfth International Conference on Medical Image Computing and Computer Assisted Intervention*, pp. 423–431, London, UK, 2009.

I. Aganj, C. Lenglet, and G. Sapiro, “ODF reconstruction in q-ball imaging with solid angle consideration.” in *Proceedings of the Sixth IEEE International Symposium on Biomedical Imaging*, Boston, MA, 2009.

I. Aganj, G. Sapiro, N. Parikshak, S. K. Madsen, and P. Thompson, “Segmentation-free measurement of cortical thickness from MRI.” in *Proceedings of the Fifth IEEE International Symposium on Biomedical Imaging*, Paris, France, 2008.

D. Rother, K. Patwardhan, **I. Aganj**, and G. Sapiro, “3D priors for scene learning from a single view.” in *Proceedings of the IEEE Workshop on Search in 3D (held in conjunction with CVPR)*, Anchorage, AK, 2008.

I. Aganj, A. Bartesaghi, M. Borgnia, H.Y. Liao, G. Sapiro, and S. Subramaniam, “Regularization for inverting the Radon transform with wedge consideration.” in *Proceedings of the Fourth IEEE International Symposium on Biomedical Imaging*, Arlington, VA, 2007.

R. Narasimha, **I. Aganj**, M. Borgnia, G. Sapiro, S. McLaughlin, J. Milne, and S. Subramaniam, “From gigabytes to bytes: Automated denoising and feature identification in electron tomograms of intact bacterial cells.” in *Proceedings of the Fourth IEEE International Symposium on Biomedical Imaging*, Arlington, VA, 2007.

Conference Abstracts

I. Aganj, C. Lenglet, and G. Sapiro, “Accurate ODF reconstruction in q-ball imaging.” in *Proceedings of the Fifteenth Annual Meeting of the Organization for Human Brain Mapping*, San Francisco, CA, 2009.

I. Aganj, C. Lenglet, G. Sapiro, M. C. Chiang, and P. Thompson, “Multi-subject diffusion MRI tractography via a Hough transform global approach.” in *Proceedings of the Fifteenth Annual Meeting of the Organization for Human Brain Mapping*, San Francisco, CA, 2009.

I. Aganj, C. Lenglet, R. Keriven, G. Sapiro, N. Harel, and P. Thompson, “A Hough transform global approach to diffusion MRI tractography.” in *Proceedings of the Seventeenth Annual Meeting of the International Society for Magnetic Resonance in Medicine*, Honolulu, HI, 2009.

Programming skills

Visual Studio .Net, C/C++, Matlab, Java, Visual Basic.

Languages English (fluent), French (fluent), Persian (native), Spanish (intermediate), and Arabic (intermediate).

Interests Playing the piano, listening to music, fencing, computer programming, and playing chess.