

Curriculum Vitae
Robert R. Uglesich

Present Address: Laboratory of Applied Mathematics, Box 1012
Department of Biomathematics
Mt. Sinai School of Medicine
One Gustave L. Levy Place
New York, NY 10029 USA
Ph: (1).212.241.3783
Fx: (1).212.426.5037
e-mail: rru@camelot.mssm.edu

Date of Birth: 30 April 1974
Place of Birth: Harbor City, CA
Nationality: USA

Marital Status: Single

Education:

Ph.D., 2002 Astronomy
Columbia University
Thesis: *A Search for Gravitational Microlensing Towards M31*
Advisor: *Prof. Arlin P.S. Crots*

M.A. &
M.Phil., 1998 Astronomy
Columbia University

B.S., 1994 Applied Physics
California Institute of Technology
Thesis: *An Investigation of Post-AGB Evolution in Warm Supergiants*

Academic Appointments:

April 2002 - Research Assistant Professor, Department of Biomathematics, Mt Sinai
School of Medicine

Fall 2002 Adjunct Professor, School of Art, Cooper Union

2001-02 Postdoctoral Fellow, Department of Biomathematics, Mt Sinai School of
Medicine

2001-02 Laboratory Instructor, Physics Department, Barnard College

1997 Adjunct Assistant Professor, Astronomy, York College, CUNY

1994-97 Teaching Assistant, Astronomy Department, Columbia University

1994-2001 Graduate Research Associate, Astronomy Department, Columbia
University

Awards & Fellowships:

Sigma Xi Grant in Aid of Research, 2000
Faculty Fellow, Columbia University, 1994-97
Summer Undergraduate Research Fellowship, Caltech, 1992
National Merit Scholarship, 1991

Skills:

- Extensive experience in the implementation of algorithms for the automated reduction of Terabyte size imaging data sets
- Expert in the implementation and use of Fourier convolution based image subtraction algorithms
- Experienced in the application of multi-variate statistical techniques to biomedical image analysis
- Experienced in the techniques of low-noise CCD imaging and spectroscopy
- Extensive experience with the following programming and scripting languages: Fortran, Perl, Python, SPP & Matlab
- Experienced UNIX Systems Administrator: Solaris, IRIX, Linux, OS X, & OpenBSD

Languages: English, Croatian, Spanish & French

Publications:*Refereed Publications:*

1. "Formaldehyde emission in galaxies," Baan, Willem A., Haschick, Aubrey D. & **Uglesich, Robert** *Astrophysical Journal*, **415**:140-149,1993
2. "On the Emergence and Discovery of Hot Spots in SNR 1987A," Lawrence, Stephen S., Sugerman, Ben E., Bouchet, Patrice, Crots, Arlin P. S., **Uglesich, Robert** & Heathcote, Steve *Astrophysical Journal*, **537**:L123-L126, 2000
3. "GRB 991216 Joins the Jet Set: Discovery and Monitoring of Its Optical Afterglow," Halpern, J. P., **Uglesich, R.**, Mirabal, N., Kassin, S., Thorstensen, J., Keel, W. C., Diercks, A., Bloom, J. S., Harrison, F., Mattox, J.& Eracleous, M. *Astrophysical Journal*, **543**:697-703, 2000
4. "Evidence for Halo Microlensing Towards M31," **Uglesich, R.**, Crots, A. P. S., Baltz, E. A., de Jong, J., Gould, A., Boyle, R. & Corbally, C. *Astrophysical Journal*, submitted, 2002
5. "In vivo NADH Fluorescence Imaging of Metabolic Function in Primary Visual Cortex," **Uglesich, R.**, Sornborger, A., Kaplan, E. & Sirovich, L., in preparation, 2002

Invited/Meeting Contributions:

1. "Results from the Columbia/VATT Microlensing Survey," **Uglesich, R.**, Crots, A.P.S. & Tomaney, A.B. *Proceedings of the 4th International Workshop on Gravitational Microlensing*, eds. Y. Giraud-Heraud, J. Kaplan & M. Moniez, January 1998.
2. "MEGA: Mapping Halo and Bulge Microlensing in M31," Crots, A. P. S., **Uglesich, R.**, Gyuk, G. & Tomaney, A. B. *Galaxy Dynamics*, eds. D.R. Merritt, M. Valluri & J.A. Sellwood, Astronomical Society of the Pacific, San Francisco, 1999.
3. "A Survey for Stellar Variability in the Inner Regions of M3: An application of image subtraction," **Uglesich, R.**, Mirabal, N., Sugerman, B.E. & Crots, A.P.S. *Bulletin of the American Astronomical Society*, January 2000.
4. "Past and Future Microlensing Surveys of M31: From Columbia/VATT to MEGA," **Uglesich, R.** & Crots, A.P.S. *Proceedings of XXXVth Recontres de Moriond: Cosmological Physics with Gravitational Lensing*, eds. M. Moniez, Y. Mellier, & J. Trân Thanh Vân, March 2000.
5. "MEGA, a Wide-Field Survey of Microlensing in M31," Crots, A. P. S., **Uglesich, R.**, Gyuk, G. & Tomaney, A. B. *Gravitational Lensing: Recent Progress and Future Goals*, eds. T.G. Brainerd & C.S. Kochanek, Astronomical Society of the Pacific, San Francisco, 2001.
6. "A Statistical Analysis of the Resolvability of Orientation Pinwheels in Intrinsic Optical Imaging Data," Sornborger, A., Roy, R., **Uglesich, R.**, Yokoo, T., Kaplan, E. & Sirovich, L., *Society for Neuroscience Abstracts*, November 2002.

Invited Lectures:

- XXXVth Recontres de Moriond: Cosmological Physics with Gravitational Lensing
11-18 March 2000, Les Arcs, Savoie, France
- 4th International Workshop on Gravitational Microlensing
15-17 January 1998, Paris, FRANCE

References:

Professor Lawrence Sirovich

Department of Biomathematics
Mt Sinai School of Medicine
One Gustave L. Levy Place
New York, NY 10029 USA
e-mail:chico@camelot.mssm.edu

Professor Ehud Kaplan

Departments of Ophthalmology, Physiology & Biophysics
Mt Sinai School of Medicine
One Gustave L. Levy Place
New York, NY 10029 USA
e-mail:ehud.kaplan@mssm.edu

Professor Arlin P.S. Crotts

Astronomy Department
Columbia University
550 W 120th Street
New York, NY 10027 USA
e-mail:arlin@astro.columbia.edu

Professor Reshmi Mukherjee

Department of Physics & Astronomy
Barnard College, Columbia University
3009 Broadway
New York, NY 10027 USA
e-mail:muk@astro.columbia.edu