

QUALIFICATIONS

Operating Systems: Linux, Windows, MacOS
Programming Languages: C, Perl, Python, SQL, IDL, Matlab, Latex
Image processing: IRAF, SExtractor, STIFF, SCAMP, SWarp, DS9, SDFRED (Subaru Reduction Package), STSDAS (HST package)

AWARDS

2008 The Ilan Ramon scholarship for academic excellence and community involvement, given by the Commercial & Industrial Club
2004 Rachel & Salim Benin Award

OBSERVING EXPERIENCE

2007 Las Campanas Observatory, Chile
Magellan Clay 6.5m Telescope with LDSS3 (3 nights)
2005-2006 Calar Alto Observatory, Spain
3.5m Telescope with OMEGA-2000 (~15 nights)
Part of the Alhambra Survey
2003-2005 Wise Observatory 1m Telescope, Israel (~20 nights)
Part of the TAVAS project

SEMINARS

2009 “The Full Strength of Cluster Lensing”

- UC Santa Barbara, Goleta, CA, October 2009
- Carnegie Institution for Science, Pasadena, CA, September 2009
- CalTech, Pasadena, CA, September 2009
- UC Davis, Davis, CA, September 2009
- KIPAC, Stanford, CA, September 2009
- UC Santa Cruz, Santa Cruz, CA, September 2009
- CfA, Harvard, Cambridge, MS, September 2009
- Johns Hopkins University, Baltimore, MD, September 2009
- Princeton University, Princeton, NJ, September 2009
- University of Pennsylvania, Philadelphia, PA, September 2009

2008 “Using Weak-Lensing Dilution to Improve Measurements of the Luminous and Dark Matter in A1689”, Technion, Haifa, Israel, August 2007
2005 “TAVAS project – the Tel-Aviv Astronomical Variability Survey”, Tel Aviv University, Tel Aviv, Israel, July 2004, Master thesis seminar

PARTICIPATION IN INTERNATIONAL CONFERENCES

- 2009 CosmoClusters workshop, Marseille, France (talk)
- 2008 International school of physics “Enrico Fermi”: Astrophysics of Galaxy Clusters, Varenna, Italy (talk)
- 2007 CosPa 2007: International Symposium on Cosmology and Particle Astrophysics, NTU, Taipei, Taiwan (talk)
- 2006 HST/ACS meeting, Jackson, Wyoming USA (talk)
- 2006 HST/ACS meeting, IAA, Granada, Spain (talk)
- 2005 IPS meeting, Karmiel, Israel (talk)
- 2003 Jerusalem Winter School: the Origin of Galaxies, Hebrew University, Jerusalem, Israel

COMMUNITY ACTIVITIES

- 2008-present “Amutat Haim” - volunteering for children with Cancer, Dana Children Hospital, Ichilov, Tel-Aviv
- 2003-present Tel-Aviv Astroclub – organizing scientific public activities including lectures, open days and meteor shower events.

LIST OF REFEREED PUBLICATIONS

1. Umetsu, K., **Medezinski, E.**, Broadhurst, T., Zitrin, A., Okabe, N., Hsieh, B.-C., & Molnar, S. M. (2009), “*The Mass Structure of the Galaxy Cluster C10024+1654 from a Full Lensing Analysis of Joint Subaru and ACS/NIC3 Observations*”, ApJ submitted, arXiv:0908.0069U.
2. **Medezinski, E.**, Broadhurst, T., Umetsu, K., Oguri, M., Rephaeli, Y., & Benitez, N. (2009), “*Detailed Cluster Mass and Light profiles of A1703, A370 & RXJ1347-11 from deep Subaru Imaging*”, MNRAS accepted, arXiv:0906.4791M.
3. Zitrin, A., Broadhurst, T., Umetsu, K., Coe, D., Benitez, N., Ascaso, B., Bradley, L., Ford, H., Jee, J., **Medezinski, E.**, Rephaeli, Y., & Zheng, W. (2009), “*New Multiply-Lensed Galaxies Identified in ACS/NIC3 Observations of C10024+1654, Using an Improved Mass Model*”, MNRAS, 396, 1985.
4. Umetsu, K., Birkinshaw, M., Liu, G.-C., Protty Wu, J.-H., **Medezinski, E.**, Broadhurst, T., Lemze, D., Zitrin, A., Ho, P. T. P., Locutus Huang, C.-W., Koch, P. M., Liao, Y.-W., Lin, K.-Y., Molnar, S. M., Nishioka, H., Wang, F.-C., Altamirano, P., Chang, C.-H., Chang, S.-H., Chang, S.-W., Chen, M.-T., Han, C.-C., Huang, Y.-D., Hwang, Y.-J., Jiang, H., Kesteven, M., Kubo, D. Y., Li, C.-T., Martin-Cocher, P., Oshiro, P., Raffin, P., Wei, T., & Wilson, W. (2009), “*Mass and Hot Baryons in Massive Galaxy Clusters from Subaru Weak Lensing and AMiBA SZE Observations*”, ApJ, 694, 1643.
5. Broadhurst, T., Umetsu, K., **Medezinski, E.**, Oguri, M., & Rephaeli, Y. (2008), “*Comparison of Cluster Lensing Profiles with Λ CDM Predictions*”, ApJ, 685, L9
6. **Medezinski, E.**, Broadhurst, T., Umetsu, K., Coe, D., Benitez, N., Ford, H., Rephaeli, Y., Arimoto, N., & Kong, X. (2007), “*Using Weak-Lensing Dilution to Improve Measurements of the Luminous and Dark Matter in A1689*”, ApJ, 663, 717.

CONFERENCE PROCEEDINGS & ASTRONOMICAL CIRCULARS

- **Medezinski, E.**, Broadhurst, T., Umetsu, K., Coe, D. (2008), "*Using Weak-Lensing Dilution to Measure Light Properties of A1689*", Modern Physics Letters A 23, 1521-1528.
- Cenko, S. B., Fox, D. B., Gal-Yam, A., Dann, J., Lipkin, Y., **Medezinski, E.**, Ofek, E. (2004), "*Optical observations of GRB040624*", GRB Coordinates Network 2618, 1.
- Gal-Yam, A., and 11 colleagues (2003), "*Supernova 2003il*", International Astronomical Union Circular 8212, 2.
- Ofek, E. O., Gal-Yam, A., Lipkin, Y., Sharon, K., **Medezinski, E.** (2003), "*GRB030329 - near contemporaneous optical limits from CONCAM*", GRB Coordinates Network 2031, 1.