

CURRICULUM VITAE
Stacy S. McGaugh

Department of Astronomy
Case Western Reserve University
Cleveland, OH 44106

phone: (216) 368-1808
email: ssm69@case.edu
astroweb.case.edu/ssm

Education

University of Michigan	Ph.D. 1992	Astronomy	1987 – 1992
Princeton University		Physics	1985 – 1986
Massachusetts Institute of Technology	S.B. 1985	Physics	1981 – 1985

Employment

Professor	Astronomy, Case Western Reserve University Chair 2015 – 2022; Director 2023 –	2012 –
Professor	Astronomy, University of Maryland Assistant 1998; Associate 2003; Full 2009	1998 – 2012
Research Fellow	Physics and Astronomy, Rutgers University	1997 – 1998
Carnegie Fellow	DTM, Carnegie Institution of Washington	1995 – 1997
Research Associate	Institute of Astronomy, University of Cambridge	1992 – 1995

Research Interests — galaxy formation and evolution, cosmology, dark matter & gravity

Professional Societies — International Astronomical Union, American Astronomical Society, Division on Dynamical Astronomy

Honors — Distinguished Alumnus, Flint Northern (2001); University of Michigan (2013)

Publications — Author of **167** refereed papers that have been cited **19,468** times (ADS SciX 1/22/26); 53 papers have been cited over 100 times, 10 over 400. H-index 71; riq-index 237. Rank in the **top 2%** of the **top 2%** of impactful authors across all sciences in the *Stanford-Elsevier Updated science-wide author databases of standardized citation indicators* and in the **top 100** of those working in astronomy & astrophysics (of about 50,000 listed). Thanked by other authors in the acknowledgements of **220** papers.

Most Cited Publications

1. “Modified Newtonian Dynamics (MOND): Observational Phenomenology and Relativistic Extensions”
Famaey, B., & McGaugh, S.S. 2012, *Living Reviews in Relativity*, **15**, 10
2. “The Baryonic Tully-Fisher Relation”
McGaugh, S.S., Schombert, J.M., Bothun, G.D., & de Blok, W.J.G. 2000, *Astrophysical Journal*, **533**, L99–L102
3. “Modified Newtonian Dynamics as an Alternative to Dark Matter”
Sanders, R.H., & McGaugh, S.S. 2002, *Annual Reviews of Astronomy & Astrophysics*, **40**, 263–317
4. “HII Region Abundances: Model Oxygen Line Ratios”
McGaugh, S.S. 1991, *Astrophysical Journal*, **380**, 140–150
5. “SPARC: Mass Models for 175 Disk Galaxies with Spitzer Photometry and Accurate Rotation Curves”
Lelli, F., McGaugh, S.S., & Schombert, J.M. 2016, *Astronomical Journal*, **152**, 157
6. “Radial Acceleration Relation in Rotationally Supported Galaxies”
McGaugh, S.S., Lelli, F., & Schombert, J.M. 2016, *Physical Review Letters*, **117**, 201101
7. “Mass Density Profiles of Low Surface Brightness Galaxies”
de Blok, W.J.G., McGaugh, S.S., Bosma, A., & Rubin, V.C. 2001, *Astrophysical Journal*, **552**, L23–L26
8. “The Baryonic Tully-Fisher Relation of Galaxies with Extended Rotation Curves and the Stellar Mass of Rotating Galaxies”
McGaugh, S.S. 2005, *Astrophysical Journal*, **632**, 859–871
9. “High-Resolution Rotation Curves of Low Surface Brightness Galaxies: Mass Models”
de Blok, W.J.G., McGaugh, S.S., & Rubin, V.C. 2001, *Astronomical Journal*, **122**, 2396–2428
10. “The Dark and Visible Matter Content of Low Surface Brightness Galaxies”
de Blok, W.J.G., & McGaugh, S.S. 1997, *Monthly Notices of the Royal Astronomical Society*, **290**, 533–552

Invited Talks

Over 100 invited talks at departmental colloquia and international conferences.