

CURRICULUM VITAE

Maximilian Stritzinger

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PERSONAL DATA

Birth: 22 September 1975, Mi., U.S.A. Nationality: U.S.A.

Wife: Katja Ejstrup Stritzinger, Nationality: Danish

EDUCATION & EMPLOYMENT

2007 – present Postdoctoral researcher at *Las Campanas Observatory*

2007 – present Affiliated Scientist at the *Dark Cosmology Centre, Niels Bohr Institute*

2005 – 2007 Postdoctoral researcher at the *Dark Cosmology Centre, Niels Bohr Institute*

11 November 2005 Ph.D. in Physics, magna cum laude, at the *Technical University of München*
Thesis title: “Type Ia Supernovae: Bolometric properties and new tools for photometric techniques”
Promotor: Prof. Wolfgang Hillebrandt

2002 – 2005 Research for Ph.D. at the *Max-Planck-Institut für Astrophysik*
Supervisor: Dr. Bruno Leibundgut

2000 – 2002 Master of Physics at the *University of Arizona*

1996 – 2000 Bachelor of Science, Double Major in Physics & Astronomy at the *University of Arizona*

OBSERVING AND TECHNICAL SKILLS

- Expertise with CCD imaging, long-slit spectroscopy, high-resolution spectroscopy, echellette spectroscopy and near-infrared imaging and spectroscopy
- Observed numerous nights on all telescopes run by the Las Campanas Observatory including: the Magellan 6.5-m telescopes, the Du Pont 2.5-m telescope, the Swope 1-m telescope; as well as amongst others, the Nordic Optical Telescope (NOT) and ESO’s New Technology Telescope (NTT)

- Proficient in the data reduction of optical imaging and spectroscopy, and near-infrared imaging obtained with amongst others, the VLT (+ FORS, + ISAAC), Gemini (+ GMOS), Magellan (+ LDSS3, + IMACS, + PANIC), and HST (+ NICMOS)
- Experience with the operation of infrared, UV-visible, and X-ray diffraction spectrometers
- Knowledge of and practice with vacuum and cryogenic systems
- “Hands on” experience with day-to-day operations of the K-1200 superconducting cyclotron at the National Superconducting Laboratory (Michigan State University) 1995–1996
- Trained in the production, extraction and analysis of Carbon 60, and other fullerenes

TEACHING & OUTREACH

- Co-supervised PhD student Giorgos Leloudas at the University of Copenhagen
- Taught undergraduate Physic lab sessions at the TU-München, 2003–2004
- Taught undergraduate Physic lab courses at the University of Arizona, 2000–2002
- Open days at the MPA Garching; volunteer duties involved showing members of the public around the building as well as giving short talks, 2003–2005

MISCELLANEOUS

- Invited speaker, contribution speaker, and presented posters at a number of international conferences and schools on supernovae and/or cosmology
- Member of the International Astronomical Union
- Organized international workshop on Dark Energy at the Niels Bohr International Academy
- Computer skills: GNU/Linux, Mac OS, Solaris, IRAF, idl, Fortran, C, MIDAS
- Visiting researcher at *Cerro Tololo Inter-American Observatory*, Jun.–Aug. 2001 & 2003
- Recipient of the William F. Lucas/San Diego Astronomy Association Scholarship, and an Outstanding Undergraduate Research Award, University of Arizona, 1998 – 2000
- Languages: English (native), Mandarin (proficient), Spanish (adequate), Danish & German (basic)

REFERENCE CONTACTS

- Prof. Mario Hamuy, Universidad de Chile, Santiago, Chile: mhamuy@das.uchile.cl
- Dr. Bruno Leibundgut, European Southern Observatory, Garching, Germany: bleibund@eso.org
- Dr. Mark Phillips, Las Campanas Observatory, La Serena, Chile: mmp@lco.cl

Astronomical Circulars

- Authored 27 IAUC / CBET circulars classifying 55 supernovae
- Co-authored 25 IAUC / CBET circulars classifying 237 supernovae
- Co-authored 5 GCN circulars

Refereed first-authored publications:

- The distance to NGC 1316 (Fornax A) based on the observations of 4 Type Ia Supernovae
Stritzinger, M., et al. 2009, in print
- The He-rich Core-Collapse Supernova 2007Y: Observations From X-ray to Radio Wavelengths
Stritzinger, M., Mazzali, P., Phillips, M., et al. 2009, ApJ, 696, 713
- Late-time Emission of Type Ia Supernovae: Optical and Near-infrared Observations of SN 2001el
Stritzinger, M., & Sollerman, J. 2007, A&A, 470L, 1
- Consistent Estimates of ^{56}Ni yields for Type Ia supernovae
Stritzinger, M., Mazzali, P., Sollerman, J., & Benetti, S. 2006, A&A, 460, 793
- Constraints on the Progenitor Systems of Type Ia Supernovae
Stritzinger, M., Leibundgut, B., Walch, S., & Contardo, G. 2006, A&A, 450, 241
- An Atlas of Spectrophotometric Landolt Standard Stars
Stritzinger M., Suntzeff, N., Hamuy, M., et al. 2005, PASP, 117, 810
- Lower limits on the Hubble Constant from models of Type Ia Supernovae
Stritzinger, M., & Leibundgut, B. 2005, A&A, 431, 423
- Optical Photometry of the Type Ia Supernova 1999ee and the Type Ib/c Supernova 1999ex in IC 5179
Stritzinger, M., Hamuy, M., Suntzeff, N., et al. 2002, AJ, 124, 2100

Refereed co-authored publications:

- Supernova 2009bb: A He-rich broad-line Type Ic Supernova?
Pignata, G., Stritzinger, M., Soderberg, A., et al., 2010, in print
- NTT and NOT spectroscopy of SDSS-II supernovae
Ostman, L., Nordin, J., Amanullah, R., Frieman, J., Goobar, A., Nichol, R., Smith, M., Stanishev, V., Stritzinger, M., Edmondson, E., Lampeitl, H., Leloudas, G., Romer, K., Sako, M., Sollerman, J., Zheng, C. 2010, A&A, submitted
- Characteristic Velocities of Core-Collapse Supernova Cores
Maurer, J., Mazzali, P., Deng, J., Filippenko, A., Hamuy, M., Kirshner, R., Matheson, T., Modjaz, M., Pian, E., Stritzinger, M., Taubenberger, S., Valenti, S. 2010, MNRAS, in press, arXiv:0911.3774

- Discovery of a Relativistic Supernova Without a Gamma-ray Trigger
Soderberg, A., Chakraborti, S., Pignata, G., Chevalier, R., Chandra, P., Ray, A., Wieringa, M., Copete, A., Chaplin, V., Connaughton, V., Barthelmy, S., Bietenholz, M., Chugai, N., Stritzinger, M., Hamuy, M., Fransson, C., Fox, O., Levesque, E., Grindlay, J., Challis, P., Foley, R., Kirshner, R., Milne, P., Torres, M. 2010, Nature, in press, arXiv:0908.2817
- The High-Metallicity Explosion Environment of the Relativistic Supernova 2009bb
Levesque, E., Soderberg, A., Foley, R., Berger, E., Kewley, L., Chakraborti, S., Ray, A., Torres, M., Challis, P., Kirshner, R., Barthelmy, S., Bietenholz, M., Chandra, P., Chaplin, V., Chevalier, R., Chugai, N., Connaughton, V., Copete, A., Fox, O., Fransson, C., Grindlay, J., Hamuy, M., Milne, P., Pignata, G., Stritzinger, M., Wieringa, M. 2010, ApJL, in press, arXiv:0908.2818
- The Carnegie Supernova Project: First Photometry Data Release of Low-Redshift Type Ia Supernovae
Contreras, C., Hamuy, M., Phillips, M., Folatelli, G., Suntzeff, N., Persson, E., Stritzinger, M., Boldt, L., González, S., Krzeminski, W., Morrell, N., Roth, M., Salgado, F., Maureira, J., Burns, C., Freedman, W., Madore, B., Murphy, D., Wyatt, P., Li, W., Filippenko, A. 2010, AJ, in press, arXiv:0910.3330
- The Carnegie Supernova Project: Analysis of the First Sample of Low-Redshift Type Ia Supernovae
Folatelli, G., Phillips, M., Burns, C., Contreras, C., Hamuy, M., Freedman, W., Persson, E., Stritzinger, M., Suntzeff, N., Krisciunas, K., Boldt, L., González, S., Krzeminski, W., Morrell, N., Roth, M., Salgado, F., Madore, B., Murphy, D., Wyatt, P., Li, W., Filippenko, A., Miller, N. 2010, AJ, 139, 120
- Type II-P Supernovae from the SDSS-II Supernova Survey and the Standardized Candle Method
D'Andrea, C., Sako, M., Dilday, B., Frieman, J., Holtzman, J., Kessler, R., Konishi, K., Schneider, D., Sollerman, J., Wheeler, C., Yasuda, N., Cinabro, D., Jha, S., Nicol, R., Lampeitl, H., Smith, M., Atlee, D., Basset, B., Castander, F., Goobar, A., Miquel, R., Nordin, J., Ostman, L., Prieto, J., Quimby, R., Riess, A., Stritzinger, M. 2010, ApJ, 708, 661
- First year Sloan Digital Sky Survey-II (SDSS-II) supernova results: consistency and constraints with other intermediate-redshift datasets
Lampeitl, H., Nicol, R., Seo, H., Giannantonio, T., Shapiro, C., Basset, B., Percival, W., Davis, T., Dilday, B., Frieman, J., Garnavich, P., Sako, M., Smith, M., Sollerman, J., Becker, A., Cinabro, D., Filippenko, A., Foley, R., Hogan, C., Holtzmann, J., Jha, S., Konishi, K., Marriner, J., Richmond, M., Riess, A., Schneider, D., Stritzinger, M., van der Heyden, K., VanderPlas, J., Wheeler, C., Zeng, C. 2009, MNRAS, in press, arXiv:0910.2193
- The normal Type Ia SN 2003hv out to very late phases
Leloudas, G., Stritzinger, M., Sollerman, J., Burns, C., Kozma, C., Krisciunas, K., Maund, J., Milne, P., Filippenko, A., Fransson, C., Ganeshalingam, M., Hamuy, M., Li, W., Phillips, M., Schmidt, B., Skottfelt, J., Taubenberger, S., Boldt, L., Fynbo, J., Gonzalez, L., Salvo, M., Thomas-Osip, J. 2009, A&A, 505, 265
- The Fast Declining Type Ia Supernova 2003gs, and Evidence for a Significant Dispersion in Near-Infrared Absolute Magnitudes of Fast Decliners at Maximum Light
Krisciunas, K., Mario, H., Suntzeff, N., Blanc, G., Bufano, F., Candia, P., Cartier, R., Elias-Rosa, N., Espinoza, J., Gonzalez, D., Gonzalez, L., Gonzalez, S., Gooding, S., Hamuy, M., Knox, E., Milne, P., Morrell, D., Phillips, M., Stritzinger, M., Thomas-Osip, J. 2009, AJ, 138, 1584
- The Carnegie Supernova Project: First Near-Infrared Hubble Diagram to $z \sim 0.7$
Freedman, W., Burns, C., Phillips, M., Wyatt, P., Persson, S., Madore, B., Contreras, C., Folatelli, G., Gonzalez, E., Hamuy, M., Hsiao, E., Kelson, D., Morrell, N., Murphy, D., Roth, M., Stritzinger, M., Sturch, L., Suntzeff, N., Astier, P., Ball, C., Bassett, B., Boldt, L., Carlberg, R., Conley, A., Frieman, J., Garnavich, P., Guy, J., Hardin, D., Howell, D., Kessler, R., Lampeitl, H., Marriner, J., Pain, R., Perrett, K., Regnault, N., Riess, A., Sako, M., Schneider, D., Sullivan, M., Wood-Vasey, M., 2009, ApJ, 704, 1036

- Early Spectroscopic Identification of SN 2008D
Malesani, D. Fynbo, J., Hjorth, J., Leloudas, G., Sollerman, J., Stritzinger, M., Vreeswijk, P., Watson, D., Gorosabel, J., Michalowski, M., Thöne, C., Augusteijn, T., Bersier, D., Jakobsson, P., Jaunsen, A., Ledoux, C., Levan, A., Milvang-Jensen, B., Rol, E., Tanvir, N., Wiersema, K., Xu, D., Albert, L., Bayliss, M., Gall, C., Grove, L., Koester, B., Leitert, E., Pursimo, T., Skillen, I. 2009, ApJ, 692L, 84
- A New Distance to the Antennae Galaxies (NGC 4038/39) Based on the Type Ia Supernova 2007sr
Schweizer, F., Burns, C., Madore, B., Mager, V., Phillips, M., Freedman, W., Boldt, L., Contreras, C., Folatelli, G., González, S., Hamuy, M., Krzeminski, W., Morrell, N., Persson, S., Roth, M., Stritzinger, M. 2008, AJ, 136, 1482
- Time Dilation in Type Ia Supernova Spectra at High Redshift
Blondin, S., Davis, T., Krisciunas, K., Schmidt, B., Sollerman, J., Wood-Vasey, W., Becker, A., Challis, P., Clocchiatti, A., Damke, G., Filippenko, A., Foley, R. J., Garnavich, P., Jha, S., Kirshner, R., Leibundgut, B., Li, W., Matheson, T., Miknaitis, G., Narayan, G., Pignata, G., Rest, A., Riess, A., Silverman, J., Smith, R., Spyromilio, J., Stritzinger, M., Stubbs, C., Suntzeff, N., Tonry, J., Tucker, B., Zenteno, A. 2008, ApJ, 682, 724
- First-Year Spectroscopy for the Sloan Digital Sky Survey-II Supernova Survey
Zhen, C.,...Stritzinger, M.,...et al. 2008, AJ, 135, 1766
- The Sloan Digital Sky Survey-II Supernova Survey: Technical Summary
Frieman, J.,...Stritzinger, M.,...et al. 2008, AJ, 135, 338
- The nature of the X-ray flash of August 24 2005. Photometric evidence for an on-axis $z = 0.83$ burst with continuous energy injection and an associated supernova?
Sollerman, J., Fynbo, J., Gorosabel, J., Halpern, J., Hjorth, J., Jakobsson, P., Mirabal, N., Watson, D., Xu, D., Castro-Tirado, A., Jaunsen, A., Jelinek, M., Jensen, B., Kann, D., Ovaldsen, J., Pozanenko, A., Stritzinger, M., Thöne, C., de Ugarte Postigo, A., Guziy, S., Ibrahimov, M., Jarvinen, S., Levan, A., Romyantsev, V., Tanvir, N. 2007, A&A, 466, 839
- No supernovae associated with two long-duration γ -ray bursts
Fynbo, J., Watson, D., Thone, C., Sollerman, J., Bloom, J., Davis, T., Hjorth, J., Jakobsson, P., Jorgensen, U., Graham, J., Fruchter, A., Bersier, D., Kewley, L., Cassan, A., Castro Ceron, J., Foley, S., Gorosabel, J., Hinse, T., Horne, K., Jensen, B., Klose, S., Kocevski, D., Marquette, J., Perley, D., Ramirez-Ruiz, E., Stritzinger, M., Vreeswijk, P., Wijers, R., Woller, K., Xu, D., Zub, M. 2006, Nature, 444, 1047
- Supernova 2006aj and the associated X-Ray Flash 060218
Sollerman, J., Jaunsen, A., Fynbo, J., Hjorth, J., Jakobsson, P., Stritzinger, M., Feron, C., Laursen, P., Ovaldsen, J., Selj, J., Thone, C., Xu, D., Davis, T., Gorosabel, J., Watson, D., Duro, R., Ilyin, I., Jensen, B., Lysfjord, N., Marquart, T., Nielsen, T., Naranen, J., Schwarz, H., Walch, S., Wold, M., Ostlin, G. 2006, A&A, 454, 503
- Theoretical light curves for deflagration models of type Ia supernova
Blinnikov, S., Roepke, F., Sorokina, E., Gieseler, M., Reinecke, M., Travaglio, C., Hillebrandt, W., Stritzinger, M. 2006, 453, 229
- Photometric observations of the Type Ia SN 2002er in UGC 10743
Pignata, G., Patat, F., Benetti, S., Blinnikov, S., Hillebrt, W., Kotak, R., Leibundgut, B., Mazzali, P., Meikle, P., Qiu, Y., Ruiz-Lapuente, P., Smartt, S., Sorokina, E., Stritzinger, M., Stehle, M., Turatto, M., Marsh, T., Martin-Luis, F., McBride, N., Mendez, J., Morales-Rueda, L., Narbutis, D., Street, R. 2004, MNRAS, 355, 178

- A NICMOS Survey of Early-Type Galaxy Centers: The Relation Between Core Properties, Gas and Dust Content, and Environment
Quillen, A., Bower, G., Stritzinger, M. 2000, ApJS, 128, 85

Conference Proceedings

- Authored or co-authored 7 conference proceedings