

Curriculum Vitae for Páll Jakobsson

Name: Páll Jakobsson

Date of Birth: 9 June 1976

Nationality: Icelandic

Spouse: Linda Mjöll Andrésdóttir

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Education: 1999: B.Sc. in Physics, University of Iceland.
2002: M.Sc. in Astronomy, University of Copenhagen.
2005: Ph.D. in Astronomy, University of Copenhagen.
Part of my Ph.D. studies were obtained as an Honorary Visiting Fellow at the University of Leicester (6 months) and as an invited graduate student at Caltech (1 month).

Employment: Aug 2005 – Mar 2006: Postdoc at the Dark Cosmology Centre, Niels Bohr Institute, University of Copenhagen.
Apr 2006 – Dec 2006: PDRA at the University of Hertfordshire.
Jan 2007 – Aug 2008: Marie Curie Fellowship at the University of Hertfordshire.

Research Int.: Gamma-ray bursts, gravitational lensing, dark matter and dark energy in the Universe, evolution of large-scale structure, galaxy formation, cosmological parameters.

Teaching: Teaching assistant: *Physics 2* at the University of Iceland (1999); *Introduction to Cosmology* at the University of Copenhagen (2004); *Advanced Cosmology* at the University of Copenhagen (2006). Lecturer and exercise classes: *Classical Dynamics* at the University of Iceland (2008–2010); *Life in the Universe* (2009); *Astrophysics 1* (2009); *Astrophysics 2* (2010); *Experimental Physics* (2010). Currently supervising two PhD students and one MSc student.

Telescope time and observations:

- On large ground-based telescopes I have had 9 successful proposals (total of 71 nights) as sole Principal Investigator (PI), and more than 45 as co-investigator. I am currently the PI of the GRB Target-of-Opportunity programme at the Nordic Optical Telescope.
 - A very experienced observer (gamma-ray bursts, supernovae, galaxy clusters, GRB host galaxies): 2.56-m Nordic Optical Telescope on La Palma [7 times], 3.58-m New Technology Telescope at La Silla [once], 5.08-m Hale Telescope at Palomar [once], 8.20-m Very Large Telescope (Kueyen) at Paranal [once].
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Grants and awards:

- ★ Reduction (25%) in Teaching Duty Award (2010–2011, HÍ).
 - ★ University of Iceland Research Fund Grant (2010, 1.1 MÍSK, HÍ).
 - ★ University of Iceland Research Fund Grant (2009, 1.2 MÍSK, HÍ).
 - ★ Marie Curie European Reintegration Grant (45 kEUR, 2008–2011, EU).
 - ★ PI of a Grant of Excellence (37.8 MÍSK, 2008–2011, RANNÍS).
 - ★ Marie Curie Fellowship (160 kEUR, 2007–2009, EU).
 - ★ Co-investigator of a project grant (14 MÍSK, 2005–2007, RANNÍS).
 - ★ Co-investigator of a Grant of Excellence (21 MÍSK, 2002–2004, RANNÍS).
 - ★ Mobility grant (110 kDKK, 2002–2003, NorFA).
 - ★ Excellent PhD project (600 kÍSK, 2002–2003, Minningarsjóður Helgu Jónsdóttur og Sigurliða Kristjánssonar).
 - ★ Rannsóknánámsjóður (2 MÍSK, 2001–2003, RANNÍS).
 - ★ Icelanders studying in Copenhagen (25 kDKK, 2001, A. P. Møller).
 - ★ Danish Government Scholarship (70 kDKK, 1999–2001, DK).
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Conferences and talks:

I have given over 25 talks and research colloquia at conferences and workshops, both national and international. Some recent highlights:

- ◇ “Host Galaxies of Long Gamma-Ray Bursts”, Gamma Ray Bursts 2010 (Annapolis, November 2010) [Invited review talk].
- ◇ “GRB Host Galaxies”, The First Year of Science with X-shooter (Como, October 2010) [Invited review talk].

- ◇ “Is There a Significant Fraction of GRBs Located in Dusty Environs?”, Nordic Astrophysics 2010 (Visby, May 2010).
- ◇ “Low-Resolution Spectroscopy of Gamma-ray Burst Optical Afterglows: Biases in the Swift Sample”, Deciphering the Ancient Universe with Gamma-Ray Bursts (Kyoto, April 2010).
- ◇ “Gammablossar: Leiftur úr fjarlægri fortíð”, Málþing í tilefni alþjóðlegs árs stjörnufræðinnar (Akureyri, March 2010) [Invited public talk].
- ◇ “GRB Host Galaxies: An Unbiased Sample”, Gamma Ray Bursts & Neutron Stars: Recent Developments & Future Directions (Cairo & Alexandria, April 2009).
- ◇ “Gammablossar og sprengistjörnur: Leiftur úr fjarlægri fortíð”, Undur veraldar: Undur alheimsins (Reykjavík, February 2009) [Invited public talk].
- ◇ “GRBs as Cosmological Tools”, The Sixth Huntsville Gamma-Ray Burst Symposium (Huntsville, October 2008) [Invited review talk].
- ◇ “Gamma-Ray Bursts and the Star-Formation History of the Universe”, Natural Science Symposium (Reykjavík, March 2008) [Invited plenary talk].
- ◇ “Building a complete sample of Swift GRBs”, Nordic Cosmology Workshop (Oslo, March 2008) [Invited].
- ◇ “What made GRBs 060505 and 060614?”, 070228: The Next Decade of GRB Afterglows (Amsterdam, March 2007) [Invited].
- ◇ “Fundamental Properties of GRB-Selected Galaxies”, Eleventh Marcel Grossmann Meeting (Berlin, July 2006) [Invited].
- ◇ “GRB 050814 at $z = 5.3$ and a Mean Redshift of 2.8 for Swift GRBs”, Gamma-Ray Bursts in the Swift Era (Washington DC, November 2005).
- ◇ “Swift Identification of Dark GRBs”, European GRB Research Training Network Meeting (Reykjavík, April 2005).

Publications: List of publications includes 56 papers (9 as first author) in refereed journals + 5 in press + 9 submitted + 2 in prep, 20 in conference proceedings, 13 in telescope annual reports, 135 GCNs or IAUCs. 228 publications currently listed in the Astronomical Data System (ADS), with 3700 (263) total (normalized) citations. My h-index, a quantification of scientific output of individual scientific authors (see [physics/0508025](https://arxiv.org/abs/physics/0508025)), is 31 (an h-index between 10 and 12 is a typical value for advancement to tenure). I am now the most cited astronomer from my country (Iceland) over the past five years. Please, see below the list of the refereed publications.

1. A. J. Castro-Tirado, M. R. Zapatero-Osorio, N. Caon, et al. (52 authors including **P. Jakobsson**). “Decay of the GRB 990123 Optical Afterglow: Implications for the Fireball Model”. *Science*, **283**, 2069–2073 (1999).
2. Ö. E. Rögnvaldsson, T. R. Greve, J. Hjorth, et al. (10 authors including **P. Jakobsson**). “Depletion of Background Galaxies Owing to the Cluster Lens CL0024+1654: U- and R-Band Observations”. *Monthly Notices of the Royal Astronomical Society*, **322**, 131–140 (2001).
3. G. Björnsson, J. Hjorth, **P. Jakobsson**, L. Christensen & S. Holland. “The Jet and the Supernova in GRB 990712”. *Astrophysical Journal Letters*, **552**, L121–L124 (2001).
4. S. Dye, A. N. Taylor, T. R. Greve, et al. (9 authors including **P. Jakobsson**). “Lens Magnification by CL0024+1654 in the *U* and *R* Band”. *Astronomy & Astrophysics*, **386**, 12–30 (2002).
5. P. Møller, J. P. U. Fynbo, J. Hjorth, et al. (13 authors including **P. Jakobsson**). “Absorption Systems in the Spectrum of GRB 021004”. *Astronomy & Astrophysics Letters*, **396**, L21–L24 (2002).
6. S. Holland, M. Weidinger, J. P. U. Fynbo, et al. (20 authors including **P. Jakobsson**). “Optical Photometry of GRB 021004: The First Month”. *Astronomical Journal*, **125**, 2291–2298 (2003).
7. J. Hjorth, J. Sollerman, P. Møller, et al. (27 authors including **P. Jakobsson**). “A Very Energetic Supernova Associated with the γ -ray Burst of 29 March 2003”. *Nature*, **423**, 847–850 (2003).
8. J. U. Fynbo, **P. Jakobsson**, P. Møller, et al. “On the Ly α Emission from Gamma-Ray Burst Host Galaxies: Evidence for Low Metallicities”. *Astronomy & Astrophysics*, **406**, L63–L66 (2003).
9. D. Watson, J. N. Reeves, J. Hjorth, **P. Jakobsson** & K. Pedersen. “Delayed Soft X-ray Emission Lines in the Afterglow of GRB 030227”. *Astrophysical Journal Letters*, **595**, L29–L32 (2003).
10. **P. Jakobsson**, J. Hjorth, J. P. U. Fynbo, et al. “The Afterglow and the Host Galaxy of GRB 011211”. *Astronomy & Astrophysics*, **408**, 941–947 (2003).
11. **P. Jakobsson**, J. Hjorth, E. Ramirez-Ruiz, et al. “Small-Scale Variations in the Radiating Surface of the GRB 011211 Jet”. *New Astronomy*, **9**, 435–442 (2004).
12. D. Watson, J. Hjorth, A. Levan, **P. Jakobsson**, et al. “A Very Low Luminosity X-ray Flash: XMM-Newton Observations of GRB 031203”. *Astrophysical Journal Letters*, **425**, L33–L36 (2004).
13. B. Thomsen, J. Hjorth, D. Watson, et al. (16 authors including **P. Jakobsson**). “The Supernova 2003lw Associated with X-ray Flash 031203”. *Astronomy & Astrophysics Letters*, **419**, L21–L25 (2004).
14. J. P. U. Fynbo, J. Sollerman, J. Hjorth, et al. (34 authors including **P. Jakobsson**). “On the Afterglow of the X-ray Flash of July 23 2003: Photometric Evidence for an Off-Axis Gamma-Ray Burst with an Associated Supernova?” *Astrophysical Journal*, **609**, 962–971 (2004).
15. D. Watson, J. Hjorth, **P. Jakobsson**, et al. “Massive Star-Formation Rates of Gamma-Ray Burst Host Galaxies: An Unobscured View in X-rays”. *Astronomy & Astrophysics Letters*, **425**, L33–L36 (2004).
16. **P. Jakobsson**, J. Hjorth, J. P. U. Fynbo, et al. “The Line-of-Sight Towards GRB 030429 at $z = 2.66$: Probing the Matter at Stellar, Galactic and Intergalactic Scales”. *Astronomy & Astrophysics*, **427**, 785–794 (2004).
17. **P. Jakobsson**, J. Hjorth, J. P. U. Fynbo, et al. “Swift Identification of Dark Gamma-Ray Bursts”. *Astrophysical Journal Letters*, **617**, L21–L24 (2004).

18. **P. Jakobsson**, J. Hjorth, I. Burud, et al. “An Optical Time Delay for the Double Gravitational Lens System FBQ 0951+2635”. *Astronomy & Astrophysics*, **431**, 103–109 (2005).
19. **P. Jakobsson**, D. A. Frail, D. B. Fox, et al. “The Radio Afterglow and Host Galaxy of the Dark GRB 020819”. *Astrophysical Journal*, **629**, 45–51 (2005).
20. **P. Jakobsson**, G. Björnsson, J. P. U. Fynbo, et al. “Ly α and UV Emission from High-z GRB Hosts: To What Extent Do GRBs Trace Star Formation?” *Monthly Notices of the Royal Astronomical Society*, **362**, 245–251 (2005).
21. J. Hjorth, J. Sollerman, J. Gorosabel, et al. (22 authors including **P. Jakobsson**). “GRB 050509B: Constraints on Short Gamma-Ray Burst Models”. *Astrophysical Journal Letters*, **630**, L117–L120 (2005).
22. J. Hjorth, D. Watson, J. P. U. Fynbo, et al. (12 authors including **P. Jakobsson**). “The Optical Afterglow of the Short γ -Ray Burst GRB 050709”. *Nature*, **437**, 859–861 (2005).
23. J. P. U. Fynbo, J. Gorosabel, A. Smette, et al. (27 authors including **P. Jakobsson**). “On the Afterglow and Host Galaxy of GRB 021004: A Comprehensive Study with the Hubble Space Telescope”. *Astrophysical Journal*, **633**, 317–327 (2005).
24. K. Pedersen, Á. Elíasdóttir, J. Hjorth, et al. (10 authors including **P. Jakobsson**). “The Host Galaxy Cluster of the Short Gamma-Ray Burst GRB 050509B”. *Astrophysical Journal Letters*, **634**, L17–L20 (2005).
25. J. Gorosabel, D. Pérez-Ramírez, J. Sollerman, et al. (16 authors including **P. Jakobsson**). “The GRB 030329 Host: A Blue Low Metallicity Subluminous Galaxy with Intense Star Formation”. *Astronomy & Astrophysics*, **444**, 711–721 (2005).
26. K. Pedersen, K. Hurley, J. Hjorth, et al. (21 authors including **P. Jakobsson**). “Multi-Wavelength Studies of the Optically Dark Gamma-Ray Burst 001025A”. *Astrophysical Journal*, **636**, 381–390 (2006).
27. D. Watson, S. Vaughan, D. Willingale, et al. (13 authors including **P. Jakobsson**). “The Soft X-ray Blast in the Apparently Sub-Luminous Gamma-Ray Burst of 3 December 2003”. *Astrophysical Journal*, **636**, 967–970 (2006).
28. D. Watson, J. N. Reeves, J. Hjorth, J. P. U. Fynbo, **P. Jakobsson**, et al. “Outshining the Quasars at Reionisation: The X-ray Spectrum and Lightcurve of the Redshift 6.29 γ -Ray Burst GRB 050904”. *Astrophysical Journal Letters*, **637**, L69–L72 (2006).
29. P. M. Vreeswijk, A. Smette, A. S. Fruchter, et al. (19 authors including **P. Jakobsson**). “Low-Resolution VLT Spectroscopy of GRBs 991216, 011211 and 021211”. *Astronomy & Astrophysics*, **447**, 145–156 (2006).
30. **P. Jakobsson**, A. Levan, J. P. U. Fynbo, et al. “A Mean Redshift of 2.8 for Swift Gamma-Ray Bursts”. *Astronomy & Astrophysics*, **447**, 897–903 (2006).
31. J. P. U. Fynbo, R. L. C. Starling, C. Ledoux, et al. (28 authors including **P. Jakobsson**). “Probing Cosmic Chemical Evolution with Gamma-Ray Bursts: GRB 060206 at $z = 4.048$ ”. *Astronomy & Astrophysics Letters*, **451**, L47–L50 (2006).
32. J. Sollerman, A. O. Jaunsen, J. P. U. Fynbo, J. Hjorth, **P. Jakobsson**, et al. “Supernova 2006aj and the Associated X-ray Flash 060218”. *Astronomy & Astrophysics*, **454**, 503–509 (2006).
33. D. Watson, J. Hjorth, **P. Jakobsson**, et al. “Are Short Gamma-Ray Bursts Collimated? GRB050709, a Flare but No Break”. *Astronomy & Astrophysics Letters*, **454**, L123–L126 (2006).
34. D. Paraficz, J. Hjorth, I. Burud, **P. Jakobsson** & Á. Elíasdóttir. “Microlensing Variability in Time-Delay Quasars”. *Astronomy & Astrophysics Letters*, **455**, L1–L4 (2006).
35. A. J. Levan, N. R. Tanvir, A. S. Fruchter, et al. (17 authors including **P. Jakobsson**). “The Faint Afterglow and Host Galaxy of the Short-Hard GRB 060121”. *Astrophysical Journal Letters*, **648**, L9–L12 (2006).

36. D. Watson, J. P. U. Fynbo, C. Ledoux, et al. (36 authors including **P. Jakobsson**). “A $\log(N_{\text{HI}}) = 22.5$ DLA in a Dark Gamma-Ray Burst: The Environment of GRB 050401”. *Astrophysical Journal*, **652**, 1011–1019 (2006).
37. **P. Jakobsson**, J. P. U. Fynbo, C. Ledoux, et al. “HI Column Densities of $z > 2$ Swift Gamma-Ray Bursts”. *Astronomy & Astrophysics Letters*, **460**, L13–L17 (2006).
38. J. P. U. Fynbo, D. Watson, C. Thöne, et al. (24 authors including **P. Jakobsson**). “No Supernovae Associated with Two Long-Duration γ -Ray Bursts”. *Nature*, **444**, 1047–1049 (2006).
39. J. Sollerman, J. P. U. Fynbo, J. Gorosabel, et al. (27 authors including **P. Jakobsson**). “The Nature of the X-Ray Flash of August 24 2005”. *Astronomy & Astrophysics*, **444**, 466–469 (2007).
40. D. Watson, J. Hjorth, J. P. U. Fynbo, **P. Jakobsson**, et al. “Very Different X-ray to Optical Column Density Ratios in Gamma-Ray Burst Afterglows: Ionisation in GRB Environments”. *Astrophysical Journal Letters*, **444**, L101–L104 (2007).
41. V. Stanishev, A. Goobar, S. Benetti, et al. (32 authors including **P. Jakobsson**). “SN 2003du: 480 days in the Life of a Normal Type Ia Supernova”. *Astronomy & Astrophysics*, **469**, 645–661 (2007).
42. A. J. Levan, **P. Jakobsson**, C. Hurkett, et al. “A Case of Mistaken Identity: GRB 060912A and the Nature of the Long-Short Divide”. *Monthly Notices of the Royal Astronomical Society*, **378**, 1439–1446 (2007).
43. P. A. Curran, A. J. van der Horst, R. A. M. J. Wijers, et al. (23 authors including **P. Jakobsson**). “GRB 060206 and the Quandary of Achromatic Breaks in Afterglow Light Curves”. *Monthly Notices of the Royal Astronomical Society Letters*, **381**, L65–L69 (2007).
44. P. Ferrero, S. F. Sanchez, D. A. Kann, et al. (21 authors including **P. Jakobsson**). “Constraints on an Optical Afterglow and on Supernova Light Following the Short Burst 050813”. *Astronomical Journal*, **134**, 2118–2123 (2007).
45. A. E. Ruiz-Velasco, H. Swan, E. Troja, et al. (40 authors including **P. Jakobsson**). “Detection of GRB 060927 at $z = 5.47$: Implications for the Use of Gamma-Ray Bursts as Probes of the End of the Dark Ages”. *Astrophysical Journal*, **669**, 1–9 (2007).
46. A. J. Levan, N. R. Tanvir, **P. Jakobsson**, et al. “On the Nature of the Short-Duration GRB 050906”. *Monthly Notices of the Royal Astronomical Society*, **384**, 541–547 (2008).
47. N. R. Tanvir, A. J. Levan, J. Gorosabel, et al. (15 authors including **P. Jakobsson**). “The Extreme, Red Afterglow of GRB 060923A: Distance or Dust?”. *Monthly Notices of the Royal Astronomical Society*, **388**, 1743–1750 (2008).
48. D. Malesani, J. P. U. Fynbo, J. Gorosabel, et al. (26 authors including **P. Jakobsson**). “Early Spectroscopic Identification of SN 2008D”. *Astrophysical Journal Letters*, **692**, L84–L87 (2009).
49. C. Guidorzi, C. Clemens, S. Kobayashi, et al. (34 authors including **P. Jakobsson**). “Rise and Fall of the X-ray Flash 080330: An Off-Axis Jet?” *Astronomy & Astrophysics*, **499**, 439–453 (2009).
50. N. R. Tanvir, D. B. Fox, A. J. Levan, et al. (63 authors including **P. Jakobsson**). “A γ -Ray Burst at a Redshift of $z \sim 8.3$ ”. *Nature*, **461**, 1254–1257 (2009).
51. R. L. C. Starling, E. Rol, A. J. van der Horst, et al. (19 authors including **P. Jakobsson**). “Constraining the Energy Budget of GRB 080721”. *Monthly Notices of the Royal Astronomical Society*, **400**, 90–99 (2009).
52. J. P. U. Fynbo, **P. Jakobsson**, J. X. Prochaska, et al. “Low-Resolution Spectroscopy of Gamma-Ray Burst Optical Afterglows: Biases in the *Swift* Sample and Characterization of the Absorbers”. *Astrophysical Journal Supplements*, **185**, 526–573 (2009).

53. S. B. Pandey, C. A. Swenson, D. A. Perley, et al. (33 authors including **P. Jakobsson**). “GRB 090902B: Afterglow Observations and Implications”. *Astrophysical Journal*, **714**, 799–804 (2010).
54. S. T. Holland, B. Sbarufatti, R. Shen, et al. (13 authors including **P. Jakobsson**). “GRB 090417B and its Host Galaxy: A Step Towards an Understanding of Optically Dark Gamma-Ray Bursts”. *Astrophysical Journal*, **717**, 223–234 (2010).
55. D. A. Kann, S. Klose, B. Zhang, et al. (76 authors including **P. Jakobsson**). “The Afterglows of Swift-era Gamma-Ray Bursts. I. Comparing pre-Swift and Swift era Long/Soft (Type II) GRB Optical Afterglows”. *Astrophysical Journal*, **720**, 1513–1558 (2010).
56. M. A. Campisi, L. X. Li & **P. Jakobsson**. “Redshift Distribution and Luminosity Function of Long Gamma-Ray Bursts from Cosmological Simulations”. *Monthly Notices of the Royal Astronomical Society*, **407**, 1972–1980 (2010).
57. A. Rowlinson, K. Wiersema, A. J. Levan, et al. (13 authors including **P. Jakobsson**). “Discovery of the Afterglow and Host Galaxy of the Low-Redshift Short GRB 080905A”. *Monthly Notices of the Royal Astronomical Society*, in press (2010).
58. A. de Ugarte Postigo, I. Horváth, P. Veres, et al. (19 authors including **P. Jakobsson**). “Searching for Differences in Swift’s Intermediate GRBs”. *Astronomy & Astrophysics*, in press (2010).
59. C. C. Thöne, D. A. Kann, G. Jóhannesson, et al. (56 authors including **P. Jakobsson**). “Photometry and Spectroscopy of GRB 060526: A Detailed Study of the Afterglow and Host of a $z = 3.2$ Gamma-Ray Burst”. *Astronomy & Astrophysics*, in press (2010).
60. V. D’Elia, J. P. U. Fynbo, P. Goldini, et al. (24 authors including **P. Jakobsson**). “VLT/X-shooter Spectroscopy of the GRB 090926A Afterglow”. *Astronomy & Astrophysics*, in press (2010).
61. **P. Jakobsson**, D. Malesani, J. Hjorth, et al. “GRB Host Galaxies: An Unbiased Sample”. *Advances in Space Research*, in press (2010).
62. N. R. Tanvir, E. Rol, A. J. Levan, et al. (18 authors including **P. Jakobsson**). “Late Time Observations of GRB 080319B: Jet Break, Host Galaxy and Accompanying Supernova”. *Astrophysical Journal*, submitted (2010).
63. R. L. C. Starling, K. Wiersema, A. J. Levan, et al. (43 authors including **P. Jakobsson**). “Discovery of the Nearby Long, Soft GRB 100316D with an Associated Supernova”. *Monthly Notices of the Royal Astronomical Society*, submitted (2010).
64. L. Christensen, C. C. Thöne, A. de Ugarte Postigo, J. P. U. Fynbo, J. X. Prochaska & **P. Jakobsson**. “A High Signal-To-Noise Ratio Composite Spectrum of Gamma-Ray Burst Afterglows”. *Astrophysical Journal*, submitted (2010).
65. S. Schulze, S. Klose, G. Björnsson, **P. Jakobsson**, et al. “The Circumburst Density Profile Around GRB Progenitors: A Statistical Study”. *Astronomy & Astrophysics*, submitted (2010).
66. A. De Cia, **P. Jakobsson**, G. Björnsson, et al. “Seeking Short-Term Variability in GRB Afterglows: High-Speed ULTRASPEC Photometry of GRB 080210”. *Monthly Notices of the Royal Astronomical Society*, submitted (2010).
67. J. Hjorth, D. Malesani, **P. Jakobsson**, et al. “The *Swift*/Very Large Telescope Gamma-Ray Burst Host Legacy Survey. I. Survey Design and Catalogues”. *Astrophysical Journal*, submitted (2010).
68. D. Malesani, J. Hjorth, J. P. U. Fynbo, **P. Jakobsson**, et al. “The *Swift*/Very Large Telescope Gamma-Ray Burst Host Legacy Survey. II. Fundamental Properties”. *Astrophysical Journal*, submitted (2010).
69. **P. Jakobsson**, J. Hjorth, J. P. U. Fynbo, et al. “The *Swift*/Very Large Telescope Gamma-Ray Burst Host Legacy Survey. III. Redshift Distribution”. *Astrophysical Journal*, submitted (2010).

70. B. Milvang-Jensen, J. P. U. Fynbo, D. Malesani, J. Hjorth, **P. Jakobsson**, et al. “The *Swift*/Very Large Telescope Gamma-Ray Burst Host Legacy Survey. IV. Ly α Emitters”. *Astrophysical Journal*, submitted (2010).