

Curriculum Vitae

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Education

- JULY 1985: Diploma in Mathematics, University of Munich.
- JULY 1989: Ph.D. in Mathematics, University of Augsburg.
- DECEMBER 1995: Habilitation in Mathematics, University of Augsburg.

Employment

- NOVEMBER 1985 – MAY 1986: Assistant, University of Munich.
- JUNE 1986 – DECEMBER 1989: Assistant, University of Augsburg.
- JANUARY 1990 – DECEMBER 1992: Postdoctoral Fellow of the DFG (Deutsche Forschungsgemeinschaft).
- JANUARY 1993 – AUGUST 1997: Assistant, University of Augsburg.
- SEPTEMBER 1997 – DECEMBER 1998: Heisenberg Fellow of the DFG.
- JANUARY 1999 – JUNE 2002: Assistant Professor, University of California, Santa Cruz.
- JULY 2002 – JUNE 2006: Associate Professor, University of California, Santa Cruz.
- JULY 2006 – NOW: Professor, University of California, Santa Cruz. Department Chair 2011–2014.

Fellowships, Grants and Awards

- 1982 – 1985: Fellowship of the "Studienstiftung des deutschen Volkes".
- JULY 1989: University prize for the dissertation.
- 1990 – 1992: Postdoctoral fellowship of the DFG (Deutsche Forschungsgemeinschaft).
- SEPTEMBER 1997 – DECEMBER 1998: Heisenberg fellowship of the DFG.
- JULY 2000 – JUNE 2002: NSF grant DMS-0070630 *Representations of Finite Groups*
- MARCH 2002 – FEBRUARY 2005: NSF grant 0128969 *Representation Rings of Finite Groups*
- JULY 2002 – JUNE 2006: NSF grant DMS-0200592 *Representation Theory of Finite Groups*
- MAY 2002: Excellence in Teaching Award, University of California, Santa Cruz.
- JULY 2006: Selfridge Prize in Computational Number Theory (together with W. Bley).
- JULY 2015 – DECEMBER 2016: UCMexus-Conacyt Collaborative Grant (Exchange Program and Collaborative Research with UNAM Morelia, Mexico)

Publications

39. R. BOLTJE, G. RAGGI-CÁRDENAS, L. VALERO-ELIZONDO: *The $-_+$ and $-^+$ constructions for biset functors*. J. Algebra **523** (2019), 241–273.
38. R. BOLTJE, O. COŞKUN: *Fibered biset functors*. Adv. Math. **339** (2018), 540–598
37. R. BOLTJE, S. DANZ: *Quasi-hereditary structure of twisted split category algebras revisited*. J. Algebra **440** (2015), 317–353.
36. R. BOLTJE, P. PEREPELTSKY: *Orthogonal units of the bifree double Burnside ring*. J. Pure Appl. Algebra **219** (2015), 47–58.
35. R. BOLTJE, B. KÜLSHAMMER: *Central idempotents of the bifree and left-free double Burnside ring*. Israel J. Math. **202** (2014), 161–194.
34. R. BOLTJE, S. DANZ: *A ghost algebra of the double Burnside algebra in characteristic zero*. J. Pure Appl. Algebra **217** (2013), 608–635.

33. R. BOLTJE, S. DANZ: *Twisted split category algebras as quasi-hereditary algebras*. Arch. Math. **99** (2012), 589–600.
32. R. BOLTJE, F. MAISCH: *Permutation resolutions for Specht modules of Hecke algebras*. J. Algebra **365** (2012), 12–28.
31. R. BOLTJE, S. DANZ: *A ghost ring for the left-free double Burnside ring and an application to fusion systems*. Adv. Math. **229** (2012), 1688–1733.
30. R. BOLTJE, B. KÜLSHAMMER: *Group algebra extensions of depth one*. Algebra & Number Theory **5** (2011), 63–73.
29. R. BOLTJE, S. DANZ, B. KÜLSHAMMER: *On the depth of subgroups and group algebra extensions*. J. Algebra **335** (2011), 258–281.
28. R. BOLTJE, R. HARTMANN: *Permutation resolutions for Specht modules*. J. Algebraic Combin. **34** (2011), 141–162.
27. R. BOLTJE, B. KÜLSHAMMER: *On the depth 2 condition for group algebra and Hopf algebra extensions*. J. Algebra **323** (2010), 1783–1796.
26. R. BOLTJE, B. XU: *On p -permutation equivalences: Between Rickard equivalences and isotypies*. Trans. Amer. Math. Soc. **360** (2008), 5067–5087.
25. R. BOLTJE, A. GLESSER: *On p -monomial modules over local domains*. J. Group Theory **10** (2007), 173–183.
24. R. BOLTJE, G. PFEIFFER: *An algorithm for the unit group of the Burnside ring of a finite group*. In "Groups St Andrews 2005", London Math. Soc. Lecture Notes Series 339, 2007, 230–236.
23. W. BLEY, R. BOLTJE: *Computation of locally free class groups*. In: Algorithmic Number Theory, 7th International Symposium, ANTS-VII, Berlin, Germany, July 23–28, 2006. Proceedings. Springer Lecture Notes in Computer Science 4076, 72–86.
22. R. BOLTJE, B. KÜLSHAMMER: *The ring of modules with endo-permutation source*. Manuscripta Math. **120** (2006), 359–376.
21. R. BOLTJE, B. KÜLSHAMMER: *Explicit and canonical Dress induction*. Algebr. Represent. Theory **8** (2005), 731–746.
20. R. BOLTJE, B. KÜLSHAMMER: *Canonical Brauer induction and the symmetric group*. Boll. Unione Mat. Ital. Sez. B Artic. Ric. Mat. (8) **8** (2005), 453–460.
19. R. BOLTJE, B. KÜLSHAMMER: *The Cartan ring of a finite group*. J. Algebra **283** (2005), 248–253.

18. W. BLEY, R. BOLTJE: *Cohomological Mackey functors in number theory*. J. Number Theory **105** (2004), 1–37.
17. R. BOLTJE: *Alperin’s weight conjecture and chain complexes*. J. London Math. Soc. **68** (2003), 83–101.
16. R. BOLTJE, B. KÜLSHAMMER: *Monomial resolutions of trivial source modules*. J. Algebra **248** (2002), 146–201.
15. R. BOLTJE: *Monomial resolutions*. J. Algebra **246** (2001), 811–848.
14. R. BOLTJE: *Alperin’s weight conjecture in terms of linear source modules and trivial source modules*. In: Modular Representation Theory of Finite Groups; Proceedings of a Symposium held at the University of Virginia, Charlottesville May 8–15, 1998 (Editor: Michael Collins), de Gruyter 2001, 147–155.
13. R. BOLTJE, B. KÜLSHAMMER: *A generalized Brauer construction and linear source modules*. Trans. Amer. Math. Soc. **352** (2000), 3411–3428.
12. W. BLEY, R. BOLTJE: *Lubin-Tate formal groups and module structure over Hopf orders*. J. Théor. Nombres Bordeaux **11** (1999), 269–305.
11. R. BOLTJE: *A general theory of canonical induction formulae*. J. Algebra **206** (1998), 293–343.
10. R. BOLTJE: *Linear source modules and trivial source modules*. Proc. Sympos. Pure Math. **63** (1998), 7–30.
9. R. BOLTJE: *Canonical induction formulae and the defect of a character, in Representation theory of finite groups*. Proceedings of a special research quarter at the Ohio State University, Spring 1995, R. Solomon (ed.), De Gruyter, Berlin 1997, 29–44.
8. R. BOLTJE: *Class group relations from Burnside ring idempotents*. J. Number Theory **66** (1997), 291–305.
7. R. BOLTJE: *Glauberman’s correspondence via canonical induction formulae*. Akad. gemein. Wiss. Erfurt, Sitzungsber. Math.-Nat. Kl. **7** (1996), 19–35.
6. R. BOLTJE: *Mackey functors and related structures in representation theory and number theory*. Habilitation-Thesis, Universität Augsburg 1995, 214pp.
5. R. BOLTJE: *Identities in representation theory via chain complexes*. J. Algebra **167** (1994), 417–447.
4. R. BOLTJE, G.-M. CRAM, V. SNAITH: *Conductors in the non-separable residue field case*. In: Algebraic K-Theory and Algebraic Topology, J. F. Jardine, P. Goerss (eds.), Kluwer 1993, 1–34.

3. R. BOLTJE, V. SNAITH, P. SYMONDS: *Algebraicisation of explicit Brauer induction*. J. Algebra **148** (1992), 504–527.
2. R. BOLTJE: *A canonical Brauer induction formula*. Astérisque **181–182** (1990), 31–59.
1. R. BOLTJE: *Canonical and explicit Brauer induction in the character ring of a finite group and a generalization for Mackey functors*, Ph.D.-Thesis, Universität Augsburg 1989, 106pp.

Ph.D. Students supervised

- ROBERT HARTMANN (awarded 2002)
- ADAM GLESSER (awarded 2006)
- ABRAHAM BERMAN (awarded 2007)
- JENNIFER MOGEL (awarded 2008)
- FILIX PORTOCARRERO-MAISCH (awarded 2010)
- MICHAEL MILLER (awarded 2011)
- SHAWN O’HARE (awarded 2013)
- PHILIPP PEREPELTSKY (awarded 2014)
- ROB CARMAN (awarded 2017)
- JAMISON BARSOTTI (awarded 2018)