JOSHUA BLINKHORN

Institut für Informatik ◇ Friedrich-Schiller-Universität Jena ◇ Ernst-Abbe-Platz 2 ◇ 07743 Jena ◇ Germany
joshua.blinkhorn@uni-jena.de

PERSONAL DETAILS

Name: Joshua Lewis Blinkhorn

Email: joshua.blinkhorn@uni-jena.de

Telephone: (+44)7895 788050

Date of birth: 18-09-1984

Nationality: British

JOURNAL PUBLICATIONS

Beyersdorff, O., Blinkhorn, J., Mahajan, M.: *Building Strategies into QBF Proofs.*
Journal of Automated Reasoning (JAR), in press.

Beyersdorff, O., Blinkhorn, J.: *Dynamic QBF Dependencies in Reduction and Expansion.*
ACM Transactions on Computational Logic (ToCL), 21(2), 2020.

Beyersdorff, O., Blinkhorn, J.: *Lower Bound Techniques for QBF Expansion.*
Theory of Computing Systems (ToCS), 64(3), 2020.

Beyersdorff, O., Blinkhorn, J., Hinde, L.: *Size, Cost and Capacity: A Semantic Technique for Hard Random QBFs.*
Logical Methods in Computer Science (LMCS) 15(1), 2019.

Beyersdorff, O., Blinkhorn, J., Chew, L., Schmidt, R., Suda, M.: *Reinterpreting Dependency Schemes: Soundness Meets Incompleteness in DQBF.*
Journal of Automated Reasoning (JAR), 63(3), 2019.

CONFERENCE PUBLICATIONS

Beyersdorff, 0., Blinkhorn, J., Peitl, T.: *Hardness Characterisations and Size-Width Lower Bounds for QBF Resolution*
Logic in Computer Science (LiCS), 2020.

Beyersdorff, 0., Blinkhorn, J., Peitl, T.: *Strong (D)QBF Dependency Schemes via Tautology-free Dependency Schemes*
International Conference on Theory and Practice of Satisfiability Testing (SAT), 2020.

Beyersdorff, 0., Blinkhorn, J.: *Proof Complexity of QBF Symmetry Recomputation*
Symposium on Theoretical Aspects of Computer Science (STACS), 2019.

Beyersdorff, 0., Blinkhorn, J., Mahajan, M.: *Building Strategies into QBF Proofs*
International Conference on Theory and Practice of Satisfiability Testing (SAT), 2019.

Beyersdorff, O., Blinkhorn, J.: *Dynamic Dependency Awareness for QBF.*
Symposium on Theoretical Aspects of Computer Science (STACS), 2018.

Beyersdorff, O., Blinkhorn, J.: *Genuine Lower Bounds for QBF Expansion.*
Symposium on Theoretical Aspects of Computer Science (STACS), 2018.

Beyersdorff, O., Blinkhorn, J., Hinde, L.: *Size, Cost and Capacity: A Semantic Technique for Hard Random QBFs.*
Innovations in Theoretical Computer Science (ITCS), 2018.

Blinkhorn, J., Beyersdorff, O.: *Shortening QBF Proofs with Dependency Schemes.*
International Conference on Theory and Practice of Satisfiability Testing (SAT), 2017.

Beyersdorff, O., Blinkhorn, J.: *Dependency Schemes in QBF Calculi: Semantics and Soundness.*
International Conference on Principles and Practice of Constraints Programming (CP), 2016.

TALKS

Hardness Characterisations and Size-Width Lower Bounds for QBF Resolution.
SAT and Interactions, Dagstuhl, February 2020.

Building strategies into QBF proofs.
Institute for Mathematical Sciences, Chennai, February 2019.

Size, cost and capacity: a semantic technique for hard random QBFs.
Proof Complexity Workshop, Oxford, July 2018.

Size, cost and capacity: a semantic technique for hard random QBFs.
British Colloquium on Theoretical Computer Science (BCTCS), Royal Holloway, March 2018.

Dependency schemes: semantics and soundness in QBF calculi.
SAT and Interactions, Dagstuhl, September 2016.

Dependency schemes and soundness in QBF calculi.
Logic Colloquium, ASL European summer meeting, Leeds, August 2016.

Dependency schemes: semantics and soundness in QBF calculi.
QBF Workshop, Bordeaux, July 2016.

EDUCATION

Castle Hill Primary School, Todmorden, Lancashire *September 1988 - July 1996*

Crossley Heath Grammar School, Halifax, West Yorkshire *September 1996 - July 2001*

Six GCSEs at grade A* and four GCSEs at grade A.

Huddersfield New College, Huddersfield, West Yorkshire *September 2001 - July 2003*

A-levels in Mathematics (B), Music (A) and Music Technology (A), and an AS-level in Politics (A).

Open University - First Class BSc. in Mathematics *September 2009 - June 2015*

Leeds University - PhD candidate *October 2015 - December 2019*

ACADEMIC POSITIONS

Friedrich-Schiller-Universität Jena - Researcher (wissenschaftlicher Mitarbeiter)
from September 2018