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NATIONALITY	German, Peruvian	
BORN	30th of March 1989, Karlsruhe, Germany	
RESEARCH INTERESTS	Geometric Group Theory, Fundamental groups of compact Kähler manifolds, Finiteness properties of groups and spaces, Dehn functions, Subgroups of direct products of groups, Subgroups of non-positively curved and hyperbolic groups, Nilpotent groups, Kodaira fibrations, Mapping class groups.	
EMPLOYMENT	<p><b>Since October 2020</b> Juniorprofessor (W1 without Tenure Track) in Geometry at the Faculty of Mathematics of the Karlsruhe Institute of Technology (KIT).</p> <p><b>March 2020 – September 2020</b> Lise Meitner fellowship of the FWF at the Faculty of Mathematics of the University of Vienna.</p> <p><b>October 2019 – February 2020</b> Postdoc at the Max-Planck Institute for Mathematics in Bonn.</p> <p><b>October 2017 – September 2019</b> Sophie Germain Postdoctoral fellowship of the FMJH at the Laboratoire de Mathématiques d'Orsay, University of Paris-Saclay.</p>	
EDUCATION	<p><b>University of Oxford, Wolfson College</b> DPhil in Mathematics, September 2017</p> <ul style="list-style-type: none"> <li>• Dissertation title: Kähler groups and Geometric Group Theory</li> <li>• Supervisor: Prof. Martin R. Bridson</li> </ul> <p><b>Ludwig-Maximilians-Universität Munich</b> M.Sc. in Mathematics, September 2013</p> <ul style="list-style-type: none"> <li>• Master thesis: Volumes of representations of 3-manifold groups</li> <li>• Supervisor: Prof. Dieter Kotschick</li> </ul> <p>B.Sc. in Mathematics, July 2011</p> <ul style="list-style-type: none"> <li>• Bachelor thesis: On the local normal form of J-convex functions on almost complex manifolds (German)</li> <li>• Supervisor: Prof. Kai Cieliebak</li> <li>• Minor in Theoretical Physics</li> </ul> <p><b>Gymnasium Wilhelmsdorf, Germany</b></p> <ul style="list-style-type: none"> <li>• Abitur, July 2008</li> </ul>	
PUBLICATIONS	<p>(1) C. Llosa Isenrich, P. Py, <i>Subgroups of hyperbolic groups, finiteness properties and complex hyperbolic lattices</i>, <i>Inventiones Mathematicae</i>, vol. 235 (2024), 233-254.</p> <p>(2) C. Llosa Isenrich, B. Martelli, P. Py, <i>Hyperbolic groups containing subgroups of type <math>F_3</math> not <math>F_4</math></i>, arXiv:2112.06531, accepted in the <i>Journal of Differential Geometry</i>.</p>	

- (3) C. Llosa Isenrich, G. Pallier, R. Tessera *Cone-equivalent nilpotent groups with different Dehn functions*, Proc. Lond. Math. Soc. (3) 126 (2023), no. 2, 704-789.
- (4) R. Kropholler, C. Llosa Isenrich, *Dehn functions of coabelian subgroups of direct products of groups*, J. Lond. Math. Soc. (2) 107 (2023), no. 1, 123-152.
- (5) C. Llosa Isenrich, *Complex hypersurfaces in direct products of Riemann surfaces*, arXiv:1806.02357, accepted in Algebraic & Geometric Topology.
- (6) C. Llosa Isenrich, P. Py, *Mapping class groups, multiple Kodaira fibrations, and CAT(0) spaces*, Math. Ann., vol. 380 (2021), no. 1-2, 449-485.
- (7) C. Llosa Isenrich, *Kähler groups and subdirect products of surface groups*, Geometry & Topology 24 (2020), no.2, 971-1017.
- (8) C. Llosa Isenrich, R. Tessera, *On the Dehn functions of Kähler groups*, Groups, Geometry, and Dynamics, vol. 14 (2020), no. 2, pp. 469-488.
- (9) C. Llosa Isenrich, R. Tessera, *Residually free groups do not admit a uniform polynomial isoperimetric function*, Proc. AMS vol. 148 (2020), no. 10, 4203-4212.
- (10) M.R. Bridson, C. Llosa Isenrich, *Kodaira fibrations, Kähler groups, and finiteness properties*, Trans. AMS vol. 372 (2019), no.8, pp. 5869-5890.
- (11) C. Llosa Isenrich, *Branched covers of elliptic curves and Kähler groups with exotic finiteness properties*, Annales de l'Institut Fourier, Volume 69 (2019) no.1, pp. 335-363.
- (12) C. Llosa Isenrich, *Finite presentations for Kähler groups with arbitrary finiteness properties*, Journal of Algebra vol. 476 (2017), pp. 344-367.
- PREPRINTS
- (13) J. García-Mejía, C. Llosa Isenrich, G. Pallier, *On the Dehn functions of central products of nilpotent groups*, arXiv:2310.11144 (October 2023).
- (14) C. Llosa Isenrich, P. Py, *Groups with exotic finiteness properties from complex Morse theory*, arXiv:2310.04073 (October 2023).
- (15) R. Kropholler, C. Llosa Isenrich, *Finitely presented kernels of homomorphisms from hyperbolic groups onto free abelian groups*, arXiv:2309.03794 (September 2023).
- GRANTS AND AWARDS
- |             |   |
|-------------|---|
| 04/23       | KIT Faculty Prize for Excellent Teaching 2023 in Mathematics for my course "Elementare Geometrie" (€10.000,00).   |
| Since 04/21 | PI in the Research Training Group 2229 "Asymptotic Invariants and Limits of Groups and Spaces" funded by the DFG  |
| 03/20-09/20 | Lise Meitner postdoctoral fellowship of the FWF (No. M2811-N, 2 years, €159.340,00), University of Vienna, terminated in Sep. 2020 to take up Junior professorship at the KIT |
| 2015–2017   | PhD Scholarship of the German Academic Scholarship Foundation (Studienstiftung des dt. Volkes), University of Oxford  |
| 2014–2015   | Scholarship for doctoral students by the German Academic Exchange Services (DAAD), University of Oxford   |
| 2013–2017   | EPSRC research studentship, University of Oxford  |
| 2009–2013   | Scholarship of the German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes), University of Munich  |
- CONFERENCE TALKS
- Subgroups of hyperbolic groups with exotic finiteness properties*, "Geometry and Groups in the Southeast", UCL London, UK (October 2023), invited.

*Finiteness properties of subgroups of hyperbolic groups*, “Interactions between Algebraic Topology and Geometric Group Theory”, CMO Oaxaca (May 2023), invited.

*Finiteness properties, subgroups of hyperbolic groups, and complex hyperbolic lattices*, “GTA IV”, Bilbao (February 2023), invited.

*Finiteness properties, subgroups of hyperbolic groups, and complex hyperbolic lattices*, “Resonance, topological invariants of groups, moduli”, HU Berlin, Germany (November 2022), invited.

*Finiteness properties, subgroups of hyperbolic groups, and complex hyperbolic lattices*, CIRM, Complex hyperbolic geometry and related topics (July 2022), invited.

*Subgroups of hyperbolic groups of type  $F_3$  and not  $F_4$* , Oberwolfach workshop 2209, Geometric structures in Group theory (February 2022), invited.

*Dehn functions of subgroups of direct products of groups*, Rencontre de l'ANR AGIRA “Groupes et Géométrie à Kleebach”, Munster, France (September 2021), invited.

Subriemannian geometry and beyond III, Pisa, Italy (May 2020, *cancelled due to the Corona pandemic*).

*Hypersurfaces complexes dans des produits directs de surfaces de Riemann*, Rencontre de l'ANR Hodgefun, IMB Bordeaux, Bordeaux, France (November 2018), invited.

*Kähler groups and coabelian subgroups of products of surface groups*, Geometric Group Theory in Campinas, ICM satellite conference, UNICAMP, Campinas, Brazil (July 2018).

*On Dehn functions of Kähler groups*, Group theory, ICM satellite conference, Cabo Frio, Brazil (July 2018).

*Kähler groups and subdirect products of surface groups*, Non-positively Curved Groups on the Mediterranean, Nahsholim, Israel (May 2018).

*Kähler groups from branched covers of elliptic curves*, Journée francillienne d'accueil des postdoctorant.e.s en mathématiques, IHÉS, Bures-sur-Yvette, France (October 2017, invited).

*Kähler groups and subdirect products of surface groups*, Manifolds and Groups, University of Regensburg, Regensburg, Germany (September 2017), invited.

*Kähler groups and subgroups of direct products of surface groups*, Groups and Geometry in the Southeast, UCL, London, UK (October 2016), invited.

*A construction method for Kähler groups from maps onto complex tori*, Finiteness conditions in Topology and Algebra, Queen's University, Belfast, UK. (September 2015)

#### OTHER RESEARCH TALKS

*Finiteness properties of coabelian subgroups of hyperbolic groups*, Séminaire Groupes et Géométrie, Geneva, Switzerland (November 2023).

*On Dehn functions of central products of nilpotent groups*, Geometric Group Theory Seminar, Oxford, UK (October 2023).

*On Dehn functions of central products of nilpotent groups*, Séminaire d'Algèbre et Opérateurs, IMJ-PRG, Paris, France (September 2023).

*Finiteness properties of subgroups of hyperbolic groups*, GGT & Topology Seminar, Karlsruhe Institute of Technology (July 2023).

*Finiteness properties, subgroups of hyperbolic groups, and complex hyperbolic lattices*, GGT Seminar, University of Münster (May 2023).

*Finiteness properties, subgroups of hyperbolic groups, and complex hyperbolic lattices*, Geometry Seminar, University of Pisa (May 2023).

*Propriétés de finitude des sous-groupes de groupes hyperboliques*, Séminaire virtuel francophone de Groupes et Géométrie (March 2023).

*Finiteness properties of subgroups of hyperbolic groups*, Geometry and Topology seminar, University of Warwick, UK (October 2022).

*Finiteness properties of subgroups of hyperbolic groups*, Oberseminar Geometrie, Topologie, University of Gießen, Germany (May 2022).

*Finiteness properties of subgroups of hyperbolic groups*, Séminaire d'Algèbre et Opérateurs, IMJ-PRG, Paris, France (April 2022).

*Images of Kähler groups in products of surface groups and Kodaira fibrations*, Topology Seminar, UC Riverside, US (May 2021).

*Images of Kähler groups in products of surface groups and Kodaira fibrations*, Topology Seminar, Northeastern, US (March 2021).

*Kodaira fibrations and mapping class groups*, Topology Seminar, University of Arkansas, US (March 2021).

*Cone-equivalent nilpotent groups with different Dehn functions*, Topology and Geometric Group Theory Seminar, Cornell, US (October 2020).

*Kodaira fibrations and mapping class groups*, Topology Seminar, University of Oxford, UK, (June 2020), *cancelled due to the Corona pandemic*.

*Kodaira fibrations and mapping class groups*, Differential Geometry and Topology Seminar, Cambridge, UK (May 2020), *cancelled due to the Corona pandemic*.

*Kodaira fibrations and mapping class groups*, Geometry and Analysis on Groups Seminar, University of Vienna, Austria (March 2020).

*Kodaira fibrations and mapping class groups*, Differential geometry Seminar, Max Planck Institute for Mathematics, Bonn, Germany (February 2020).

*Introduction to Kähler groups*, MPI Oberseminar, Max Planck Institute for Mathematics, Bonn, Germany (December 2019).

*Lower bounds on Dehn functions of residually free groups*, Group theory Seminar, ICMAT/UAM, Madrid, Spain (December 2019).

*Images of Kähler groups in direct products of surface groups*, Geometry Seminar, University of Heidelberg, Germany (November 2019).

*Lower bounds on Dehn functions of residually free groups*, GGTT Seminar, Tufts University, Boston, US (September 2019).

*Bilder von Kählergruppen in direkten Produkten von Flächengruppen*, Colloquium, KIT, Karlsruhe, Germany (July 2019).

*Lower bounds on Dehn functions of residually free groups*, Oberseminar Groups and Geometry, University of Bielefeld, Bielefeld, Germany (June 2019).

*Kähler groups and complex hypersurfaces in direct products of Riemann surfaces*, Séminaire d'Analyse et Géométrie, Institut de Mathématiques de Jussieu, Paris, France (March 2019).

*Complex hypersurfaces in direct products of Riemann surfaces*, HORUS Seminar, Université de Strasbourg, Strasbourg, France (December 2018).

*Lower bounds on Dehn functions of residually free groups*, LKS Seminar, University of Regensburg, Regensburg, Germany (October 2018).

*Complex hypersurfaces in direct products of Riemann surfaces*, Oberseminar Geometrie, University of Munich (LMU), Munich, Germany (October 2018).

*On Dehn functions of Kähler groups*, Geometry and Topology Seminar, Technion, Haifa, Israel (May 2018).

*Sous-groupes kähleriens coabeliens des produits directs de groupes de surfaces*, Séminaire de géométrie analytique, IRMAR, Université de Rennes 1, Rennes, France (March 2018).

*Kähler groups and subdirect products of surface groups*, Journée de rentrée de l'équipe de Topologie et Dynamique, Université Paris-Sud, Orsay, France (October 2017).

*Constraints on coabelian Kähler subdirect products of surface groups*, Poincaré Seminar, University of Oxford, Oxford, United Kingdom (June 2017).

*Kähler groups and subdirect products of surface groups*, Guillermo Torres Seminar for Geometry and Topology, UNAM, Mexico City, Mexico (March 2017).

*Constructing Kähler groups with arbitrary finiteness properties*, Topology Seminar, Tata Institute of Fundamental Research, Mumbai, India. (July 2016)

OUTREACH TALKS *Polynome, Pythagoras und Fermat's letzter Satz – Können Computer alle Probleme lösen?*, Tag der Mathematik 2023, Karlsruhe, Germany.

*Polynome, Pythagoras und Fermat's letzter Satz – Können Computer alle Probleme lösen?*, Regionalrunde der Mathematikolympiade 2022, Karlsruhe, Germany.

TEACHING EXPERIENCE

Winter 2023	Lecturer, Geometric Group Theory II, KIT
Summer 2023	Lecturer, Geometric Group Theory, KIT
Winter 2022	Lecturer, Proseminar "Ebene Geometrie", KIT
Summer 2022	Lecturer, Seminar on Geometric group theory, KIT
Winter 2021	Lecturer, Elementare Geometrie, KIT
Summer 2021	Lecturer, Geometric Group Theory, KIT
Winter 2020	Lecturer, Graduate course on Kähler groups, KIT
Winter 2020	Lecturer, Proseminar Knotentheorie, KIT
10/14 – 07/17	College Lecturer in Pure Mathematics, University of Oxford, 4 contact hours per week during term time plus associated marking and administration  Duties included tutorials and classes in Pure Mathematics and conducting admission interviews. In particular, I have taught for the Part A courses Linear Algebra, Metric spaces and Complex Analysis, Algebra, Integration, Topology, Group Theory, and Introduction to Manifolds, and for the Prelims course in Geometry

	Trinity 2015	Tutorials and Revision classes, Graph Theory, University of Oxford
	Trinity 2014	Revision classes, Linear Algebra, University of Oxford
	Hilary 2014	Teaching Assistant, Homological Algebra, University of Oxford
	Michaelmas 2013	Teaching Assistant, Topology and Groups, University of Oxford
	Summer 2013	Class tutor, Geometry and Topology of surfaces, LMU Munich
	Winter 2012	Class tutor, Mathematical Quantum Mechanics, LMU Munich
	Summer 2012	Class tutor, Analysis I, LMU Munich
	Winter 2011	Class tutor, Algebra for teachers, LMU Munich
	Summer 2011	Class tutor, Functional Analysis, LMU Munich
	Summer 2010	Class tutor, Linear Algebra for Computer scientists, LMU Munich
	Winter 2009	Teaching Assistant, Complex analysis, LMU Munich
PHD STUDENTS	Jerónimo García Mejía (current, since 10/2020)	
	Jannis Weis (current, since 11/2023, co-supervision with Roman Sauer)	
POSTDOCS	Matteo Migliorini (since 10/2023)	
	Gabriel Pallier (10/2022 - 08/2023, now Maître de Conférences at Université de Lille)	
BACHELOR AND MASTER THESIS SUPERVISION	Completed theses: 4 Bachelor theses, 1 Master thesis	
	Ongoing: 3 Bachelor theses	
EXTENDED PROFESSIONAL TRAVEL	01/18 – 02/18	Visit to UNAM as guest of Dr. Pierre Py, Mexico City, Mexico, 5 weeks.
	01/16	Visit to the Tata Institute for Fundamental Research as guest of Prof. Mahan Mj, Mumbai, India, 3 weeks.
OTHER PROFESSIONAL ACTIVITIES	Since 10/22	Organiser of the GGT Journal seminar at the KIT
	09/22	Co-organiser of the workshop “Complex Geometry and Geometric Group Theory” at the KIT, 26 - 30 September 2022
	Since 04/22	Co-organiser of the AG Seminar “Topologie und Geometrische Gruppentheorie” at the KIT
	Since 04/22	Co-organiser of the Heidelberg–Karlsruhe–Strasbourg Geometry Days
	02/22	Co-organiser of the “Workshop on Finiteness properties” at the KIT, 23 - 25 February 2022
	Since 04/21	Co-organiser of the GCD seminar in Karlsruhe
	Since 04/21	Organiser of the Karlsruhe RTG colloquia
	Since 10/20	Member of the Young Investigator Network at the KIT
	09/18 – 06/19	Organiser of a working group of doctoral students and postdocs in Geometric Group Theory at the University of Paris-Sud
	Refereeing for various journals	
LANGUAGES	Fluent in German, English, Spanish and French	