

## ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

selezione pubblica per n.1 posto/i di Ricercatore a tempo determinato in tenure track (RTT)

per il settore concorsuale 01/A2,

settore scientifico-disciplinare MAT/03 - GEOMETRIA (ora gruppo scientifico-disciplinare 01/MATH-02 - Algebra e geometria; settore scientifico disciplinare MATH-02/B - Geometria)

presso il Dipartimento di Matematica Federigo Enriques,

Codice concorso 5581

## Andrea Galasso CURRICULUM VITAE

### INFORMAZIONI PERSONALI

COGNOME	GALASSO
NOME	ANDREA
DATA DI NASCITA	11/12/1991

### TITOLI

#### TITOLO DI STUDIO

<b>Università Cattolica del Sacro Cuore</b> <i>Master's Degree in Mathematics with highest score cum laude</i> Thesis: <i>Geometric Quantization and Landau Levels</i> Advisor: Prof. Mauro Spera, Co-Advisor: Prof. Giuseppe Nardelli	<b>Brescia, Italy</b> <i>Oct 2013 – Jul 2015</i>
<b>Università Cattolica del Sacro Cuore</b> <i>Bachelor's Degree in Mathematics with highest score cum laude</i> Thesis: <i>Two different approaches to tunneling problems</i> Advisor: Prof. Fausto Borgonovi, Co-Advisor: Prof. Giulio Giusteri	<b>Brescia, Italy</b> <i>Sep 2010 – Sep 2013</i>

#### TITOLO DI DOTTORE DI RICERCA O EQUIVALENTI, OVVERO, PER I SETTORI INTERESSATI, DEL DIPLOMA DI SPECIALIZZAZIONE MEDICA O EQUIVALENTE, CONSEGUITO IN ITALIA O ALL'ESTERO

<b>Università degli Studi di Pavia &amp; Milano-Bicocca</b> <i>Ph.D. in Mathematics, Defense: Università di Milano-Bicocca, 14th of December</i> Thesis: <i>Non Abelian Asymptotics of Szegő Kernels on Compact Quantized Manifolds</i> Advisor: Prof. Roberto Paoletti I have spent 3 months at Université du Luxembourg under the supervision of Prof. Martin Schlichenmaier	<b>Milan, Italy</b> <i>Nov 2015 – Oct 2018</i>
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#### CONTRATTI DI RICERCA, ASSEGNI DI RICERCA O EQUIVALENTI

<b>Università degli Studi di Milano-Bicocca</b> <i>Postdoctoral Researcher</i> From 12/07/2023 to 12/08/2023 at Mathematics Institute of the Universität zu Köln founded by "Borsa per l'estero dell'Istituto Nazionale di Alta Matematica (INdAM)"	<b>Milan, Italy</b> <i>October 2022 – September 2024</i>
<b>National Center for Theoretical Sciences</b> <i>Postdoctoral Researcher</i> From 01/08/2022 to 31/08/2022 at Bergische Universität Wuppertal, Germany	<b>Taipei, Taiwan</b> <i>March 2020 – August 2022</i>
<b>Università degli Studi di Milano-Bicocca</b> <i>Postdoctoral Researcher (Progetto ID 2018-ATESP-066)</i>	<b>Milan, Italy</b> <i>March 2019 – February 2020</i>

## ATTIVITÀ DIDATTICA A LIVELLO UNIVERSITARIO IN ITALIA O ALL'ESTERO

..... <b>At Università Cattolica del Sacro Cuore</b> .....		
<b>Istituzioni di Geometria Superiore (Teaching Assistant)</b>	<b>Hours: 15+15</b>	
<i>Master's Degree in Mathematics</i>		A.Y. 2018/2019 & 2019/2020
Teacher: Prof. Mauro Spera		
..... <b>At Università degli Studi di Milano-Bicocca</b> .....		
<b>Algebra Lineare e Geometria (Teaching Assistant)</b>	<b>Hours: 24+ 24</b>	
<i>Bachelor's Degree in Mathematics</i>		A.Y. 2022/2023 & 2023/2024
Teacher: Prof. Michele Rossi		
<b>Algebra Lineare e Geometria (Teaching Assistant)</b>	<b>Hours: 24+24</b>	
<i>Bachelor's Degree in Mathematics</i>		A.Y. 2016/2017 & 2017/2018
Teacher: Prof. Sonia Brivio		
<b>Geometria II (Tutoring)</b>	<b>Hours: 30</b>	
<i>Bachelor's Degree in Mathematics</i>		A.Y. 2015/2016
Teacher: Prof. Roberto Paoletti		
<b>General Mathematics (Tutoring)</b>	<b>Hours: 26 + 16</b>	
<i>Bachelor's Degree in Scienze dell'Organizzazione (SCOR)</i>		A.Y. 2015/2016 & 2017/2018
Teacher: Prof. Marina Pireddu		

## DOCUMENTATA ATTIVITÀ DI FORMAZIONE O DI RICERCA PRESSO QUALIFICATI ISTITUTI ITALIANI O STRANIERI;

During my Ph.D. I have spent 3 months at Université du Luxembourg under the supervision of Prof. Martin Schlichenmaier.  
From 01/08/2022 to 31/08/2022 I have been at Bergische Universität Wuppertal, Germany to discuss with Dr. Hermann Hendrik.  
From 12/07/2023 to 12/08/2023 I have been at Mathematics Institute of the Universität zu Köln founded by "Borsa per l'estero dell'Istituto Nazionale di Alta Matematica (INdAM)".

## ATTIVITÀ DI RELATORE A CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

**1 May 2021:** Title: *G-Invariant Toeplitz operators on CR manifolds*

21-st Taiwan Geometry Symposium

<https://sites.google.com/view/21st-symposium/>

**27-30 Apr 2021:** Title: *Nuclei di Szegő e azioni di gruppi*

Giornate di Geometria Algebrica e argomenti correlati XV

<http://users.mat.unimi.it/users/alzati/gargnano2020/index.html>

I gave talks at the following Universities: Mathematics Institute of the Universität zu Köln (Germany), Bergische Universität Wuppertal (Germany), Academia Sinica (Taipei), Università Cattolica del Sacro Cuore (Brescia), Université du Luxembourg (Luxembourg).

I gave short talks in the following conferences: HAYAMA Symposium on Complex Analysis in Several Variables XXIII, GEOQUANT Geometry & Quantization International Conference.

## PRODUZIONE SCIENTIFICA

### PUBBLICAZIONI SCIENTIFICHE

(per ciascuna pubblicazione indicare: nomi degli autori, titolo completo, casa editrice, data e luogo di pubblicazione, codice ISBN, ISSN, DOI o altro equivalente)

- (with Chin-Yu Hsiao) *Functional calculus and Quantization commutes with reduction for Toeplitz operators on CR manifolds*  
Accepted for the publication in Mathematische Zeitschrift  
preprint: arXiv:2112.11257
- *Remarks on asymptotic isometric embeddings of conic transforms for torus actions*  
Rendiconti del Circolo Matematico di Palermo Series 2 12215, 1053 (2024)  
DOI: <https://doi.org/10.1007/s12215-024-01053-z>
- *Commutativity of quantization with conic reduction for torus actions on compact CR manifolds*  
Annals of Global Analysis and Geometry 65, 4 (2024)  
DOI: <https://doi.org/10.1007/s10455-023-09931-y>
- *Remarks on star products for non-compact CR manifolds with non-degenerate Levi form*  
Bulletin of the Institute of Mathematics Academia Sinica 18, 3 (2023)  
DOI: <https://doi.org/10.21915/BIMAS.2023303>
- (with Chin-Yu Hsiao) *Toeplitz operators on CR manifolds and group actions*  
The Journal of Geometric Analysis 33, 21 (2023)  
DOI: <https://doi.org/10.1007/s12220-022-01078-9>
- *Equivariant fixed point formulae and Toeplitz operators under Hamiltonian torus actions and remarks on equivariant asymptotic expansions*  
International Journal of Mathematics 33, 2 (2022)  
DOI: <https://doi.org/10.1142/S0129167X22500112>
- (with Roberto Paoletti) *Equivariant Asymptotics of Szegő kernels under Hamiltonian  $SU(2)$ -actions*  
Asian Journal of Mathematics 24, 3 (2020)  
DOI: <https://doi.org/10.4310/AJM.2020.v24.n3.a6>
- (with Roberto Paoletti) *Equivariant Asymptotics of Szegő kernels under Hamiltonian  $U(2)$ -actions*  
Annali di Matematica Pura e Applicata 198, 2 (2019)  
DOI: <https://doi.org/10.1007/s10231-018-0791-3>
- (with Mauro Spera) *Remarks on the geometric quantization of Landau levels*  
International Journal of Geometric Methods in Modern Physics 13, 10 (2016)  
DOI: <https://doi.org/10.1142/S021988781650122X>

#### ..... Conference proceedings .....

- (with Roberto Paoletti) *Hamiltonian  $U(2)$ -actions and Szegő kernel asymptotics*  
IOP Conf. Series: Journal of Physics: Conf. Series, Vol. 1194 (2019)  
DOI: <https://doi.org/10.1088/1742-6596/1194/1/012035>

## Preprints

- (with Chin-Yu Hsiao) *Embedding theorems for quantizable pseudo-Kähler manifolds*  
preprint: arXiv:2209.10269
- (with Chin-Yu Hsiao) *On the singularities of the Szegő kernels on CR orbifolds*  
preprint: arXiv:2208.03690

## Other Projects and Organization Activity

**April 19 2024:** “Matematica oltre i banchi”, presentazione del poster “Tassellazioni del piano - Da Escher al tassello Einstein”

<https://www.matapp.unimib.it/it/terza-missione/matematica-oltre-banchi>

**March - April 2024:** “Representation varieties and quantization of Chern-Simons theory”, Course for Ph-D-students at Università degli Studi di Milano-Bicocca with Gianluca Faraco

<https://sites.google.com/view/jointphd/courses?authuser=0>

**11-12 Sept. 2023:** Organization of the conference Geometria in Bicocca

<https://geometryinbicocca.matapp.unimib.it/>

**Feb.-May 2023:** Organization of a biweekly seminar cycle "Geometry & Topology seminars at Unimib" with Gianluca Faraco. The seminar cycle concerns research talks by Postdocs and early researchers in Mathematics

<https://sites.google.com/unimib.it/geometryatbicocca>

**2016-2018:** Organization of the seminar cycle "*Insalate di Matematica*", promoted by Dept. of Mathematics and Applications, Università degli Studi di Milano-Bicocca

The seminar cycle concerns informal talks by Ph.D. Students and early researchers in Mathematics

**Mar. 2017:** Book's chapter: "*Elogio della mente a Brescia*" in *Alice & Bob* n. 49, I Giochi di Martin Gardner

**20 October 2017:** Popularization's talk for "Celebration of Mind" having title "*Piastrelle Pentagonalì*", Università Cattolica del Sacro Cuore, Brescia

<http://elogiodellamente.dmf.unicatt.it/2017/index.html.it>

**Jan. 2015-2016:** "Chiedi all'esperto", as a part of a group of experts trying to answer questions about people's scientific curiosity

<https://www.vialattea.net/content/home-ce/>

**Jan. 2013-2020:** Training lessons for Mathematics competitions

<http://www.disfida.it/allenamenti/>

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## Other work experiences

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**I.I.S.S. C.Golgi, Via Rodi, 16 - Brescia**

*Secondary School Teacher*

*Oct 2018 – February 2019*

**AmbienteParco impresa sociale S.r.l., Largo Torrelunga, 7 - 25121 Brescia**

*Scientific popularizer*

*2012/2015*

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## Language skills

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**Italian** (mother tongue), **English**, **Mandarin Chinese** (Basic)

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## Computer skills

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**Languages:** C,  $\text{\LaTeX}$ .

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## Further information

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### Scholarships and prizes

**Premio Don Bartolomeo Grazioli**

*Prize for Master's Degree Thesis*

*2015*

**Borsa di Studio "Maria Teresa Ambrosetti"**

*Mathematics Scholarship*

*2011/2015*

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## Other activities

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**Reviewer for ZbMATH**, <https://zbmath.org/>

Data

16/07/2024

Luogo

Milano