



# Curriculum Vitæ

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*Emanuele Tasso*

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/A3**, settore scientifico-disciplinare **MAT/05** presso il Dipartimento di Matematica F.Enriques, Codice concorso **5472**

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## Personal information

Name Emanuele Tasso  
Date of birth 16/08/1987  
Phone (+43) 1 58801 10136  
E-mail emanuele.tasso@tuwien.at.ac  
ORCID hyperlink

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## Research institution

Institution TU Wien (Institute of Analysis and Scientific Computing)  
Address Wiedner Hauptstraße 8–10/104, 1040 Wien

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## Academic career

- 2021 – Ongoing **Postdoc position**, TU WIEN, FACULTY OF MATHEMATICS, Wien, Austria
- 2019 – 2021 **Postdoc position**, TU DRESDEN, FACULTY OF MATHEMATICS, Dresden, Germany
- 2015 – 2019 **Ph.D. in Mathematical Analysis, Modelling and Applications**, SISSA, Trieste, Italy  
Advisor: Prof. Gianni Dal Maso  
Thesis Title: *Some fine properties of SBV and SBD functions with applications to elastodynamics in domains with growing cracks*  
Grade: Cum laude
- 2012 – 2015 **Master's degree in Mathematics**, UNIVERSITÀ DEGLI STUDI DI PISA, Pisa, Italy  
Advisor: Prof. Giovanni Alberti  
Thesis Title: *Decomposizione di correnti normali*  
Grade: 110/110 cum laude
- 2009 – 2012 **Bachelor's degree in Mathematics**, UNIVERSITÀ DEGLI STUDI DI TORINO, Torino, Italy  
Advisor: Prof. Marino Badiale  
Thesis Title: *Formula di Coarea*  
Grade: 105/110

2007 – 2009 **Enrolled in Physical Engineering**, POLITECNICO DI TORINO, Torino, Italy

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## Teaching activity

- 2022 – 23 Course: *Functions of bounded variation* [Web-page](#). TU Wien
- 2020 – 2021 Tutor activity: *Fortgeschrittene Analysis für Physiker*. TU Dresden. Lecturer: Prof. P. Hornung
- 2020 – 2021 Tutor activity: *Mathematik III für Wirtschaftsingenieure*. TU Dresden. Lecturer: Dr. V. Alekseev
- 2019 – 2020 Tutor activity: *HANA/Partielle Differentialgleichungen*. TU Dresden. Lecturer: Prof. F. Schuricht

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## Mentoring activity

- Oct. 2023 – Ongoing Master thesis co-advisor of the student Tobias Unterberger, Faculty of Mathematics, TU Wien

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## Research groups

- Nov. 2023 – Ongoing Member of FWF Stand Alone Project: [Alternate minimization in fracture mechanics](#)
- Mar. 2022 – Oct. 2023 Member of the FWF Start Project: [Tunable materials: geometry, nonlocality, chirality](#)
- Nov. 2021 – Feb. 2022 Member of the FWF-SFB 65 Project: [Nonlocal challenges in continuum mechanics](#)

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## Invited talks

- Jul. 2024 *Sharp-interface limit for non-isothermal and nonlocal Modica-Mortola functionals* (Special session invited talk)  
**Advances in variational method and application (Joint meeting AMS-UMI)**, Università degli Studi di Palermo, Palermo, Italy
- Dec. 2023 *Sharp-interface limit for non-isothermal and nonlocal Modica-Mortola functionals* (Invited talk)  
**PDE Afternoon**, TU Wien, Vienna, Austria
- Aug. 2023 *Rectifiability of a class of Integralgeometric measures and applications*  
**Three days between Analysis and Geometry in Trento**, Department of Mathematics, University of Trento, Trento, Italy
- Jan. 2022 *Weak formulation of elastodynamics in domains with growing cracks*  
**PDE Afternoon**, TU Wien, Vienna, Austria
- May 2019 *A continuity result for the trace operator in the context of special functions with bounded variation*  
**Calculus of Variations and PDE day**, TU Dresden, Dresden, Germany

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## Other talks

- Nov. 2023 *Sharp-interface limit for non-isothermal and nonlocal Modica-Mortola functionals*  
**3th Austrian Calculus of Variations Day**, TU Wien, Vienna, Austria
- Jun. 2022 *Rectifiability of a class of Integralgeometric measures and applications*  
**Seminar on Calculus of Variations (VSM)**, Universität Wien, Vienna, Austria
- Nov. 2022 *Bounded deformation in a non-euclidean setting*  
**2nd Austrian Calculus of Variations Day**, Department of Mathematics, Salzburg University, Salzburg, Austria
- Jan. 2022 *Generalised bounded deformation on Riemannian manifolds*  
**22nd GAMM Seminar on Microstructures**, TU Wien, Vienna, Austria
- Oct. 2020 *Brittle fracture in linearly elastic plates and shells: a dimension reduction approach*  
**Seminar on Calculus of Variations (VSM)**, Universität Wien, Vienna, Austria)
- Feb. 2019 *Un risultato di continuità per l'operatore di traccia nel contesto delle funzioni speciali a variazione limitata*  
**XIX Convegno Nazionale di Calcolo delle Variazioni**, (CIRM), Levico Terme, Trento, Italy

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## Awards

- 2021 **Lutmann's Prize**. Award for the best SISSA PhD thesis in mathematics

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## Organization activity

- Oct. 2017 – Jun. 2019 Organizer of the Analysis Junior Seminars at SISSA, Trieste

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## Published and accepted papers

- (2023) **Generalized bounded deformation in non-Euclidean settings**  
S. Almi, E. Tasso.  
Indiana University Mathematical Journal  
DOI hyperlink: <https://doi.org/10.48550/arXiv.2304.11372>
- (2021) **A new proof of compactness in  $G(S)BD$**   
S. Almi, E. Tasso.  
Advances in Calculus of Variations  
DOI hyperlink: <https://doi.org/10.1515/acv-2021-0041>
- (2021) **Brittle fracture in linearly elastic plates**  
S. Almi, E. Tasso.  
Proceedings of the Royal Society of Edinburgh

DOI hyperlink: <https://doi.org/10.1017/prm.2021.71>

- (2021) **On the blow-up of  $GSBV$  functions under suitable geometric properties of the jump set**

E. Tasso.

Advances in Calculus of Variations

DOI hyperlink: <https://doi.org/10.1515/acv-2019-0068>

- (2020) **On the continuity of the trace operator in  $GSBV(\Omega)$  and  $GSBD(\Omega)$**

E. Tasso.

ESAIM: Control, Optimisation and Calculus of Variation

DOI hyperlink: <https://doi.org/10.1051/cocv/2019014>

- (2020) **Energy-dissipation balance of a smooth moving crack**

M. Caponi, I. Lucardesi, E. Tasso.

Journal of Mathematical Analysis and Applications

DOI hyperlink: <https://doi.org/10.1016/j.jmaa.2019.123656>

- (2019) **Weak formulation of elastodynamics in domains with growing cracks**

E. Tasso.

Annali di Matematica

DOI hyperlink: <https://doi.org/10.1007/s10231-019-00932-y>

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## Submitted papers

- (2022) **A general criterion for jump set slicing and applications**

S. Almi, E. Tasso.

ArXiv preprint

DOI hyperlink: <https://doi.org/10.48550/arXiv.2212.09822>

- (2022) **Rectifiability of a class of integralgeometric measures and applications**

E. Tasso.

ArXiv preprint

DOI hyperlink: <https://doi.org/10.48550/arXiv.2206.14044>