Riccardo Marin, Ph.D.

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- Boltzmannstrasse 3, 85748 Garching,
- Germany

Personal details:
- Place of birth: *Verona, Italy*
- Date of birth: *24 September 1991*
- Citizenship: *Italian*
- Native Language: *Italian*
- Spoken Languages: *English* (fluent), *German* (basic)

Curriculum Vitae - updated: October 10, 2024

Research Interests

- 3D Geometry Processing, Shape Matching and Registration, Virtual Humans, Spectral shape Analysis, Geometric Deep Learning, Virtual Reality, AI, Computer Graphics and Computer Vision.

Research Profile

I am a post-doctoral researcher at the Computer Vision Group of the Technical University of Munich (TUM), supervised by Prof. Daniel Cremers. Previously, I was a postdoc funded by a Humboldt and a Marie Skłodowska-Curie Post-Doctoral Fellowships at the University of Tübingen in the Real-Virtual Humans group led by Prof. Gerard Pons-Moll, and a post-doc at Sapienza University of Rome in the GLADIA group led by Prof. Emanuele Rodolà. I followed the University of Verona's Ph.D program in Computer Science, under the supervision of Prof. Umberto Castellani, collecting a Best PhD Thesis award by EG-Italy. I graduated in Computer Science and Engineering at the University of Verona (2017). I work on Spectral Shape Analysis, Shape Matching Geometric Deep Learning, and Virtual Humans. My work appeared in top-level conferences and journals (NeurIPS, IJCV, CVPR, ICCV, ECCV, CGF) and collected prestigious awards (Best Student Paper 3DV20, Top Cited CGF 2020-21, Best paper at NeurReps Workshop). I served as conference organizer (RCD Committee at SIGGRAPH, Volunteer Chair at 3DV18 and STAG21), as Associate Editor (AI Communications Journal), as a reviewer for several journals and conferences (PAMI, TCVG, CVPR, NeurIPS, ICLR, ICML), obtaining six Outstanding Reviewer Awards. I am a member of the European Lab for Learning and Intelligent Systems (ELLIS), and I got Italian professorships habilitation (ASN) for Computer Science (01/B1) and Information Engineering (09/H1).

Academic Appointments

- **Technical University of Munich,** Germany - Machine Learning Center Munich — *11/2024 – present*
  Post-doctoral researcher, (12 months);
  Advisor: Prof. Daniel Cremers
- **University of Tübingen,** Germany - Computer Science department — *08/2023 – 07/2024*
  European (Post-doctoral) researcher, MSCA-PF Fellowship (12 months);
  Advisor: Prof. Gerard Pons-Moll
- **University of Tübingen,** Germany - Computer Science department — *07/2022 – 06/2023*
  Post-Doctoral researcher, Humboldt Foundation Fellowship (12 months);
  Advisor: Prof. Gerard Pons-Moll
- **Sapienza University of Rome,** Italy - Computer Science department — *04/2021 – 04/2023*
  Contract/Adjunct Professor
  Algorithm Design Course (Exerciser and member of the Exam Committee)
- **Sapienza University of Rome,** Italy - Computer Science department — *12/2020 – 06/2022*
  Post-Doctoral researcher;
  Advisor: Prof. Emanuele Rodolà
- **École Polytechnique (FRA),** France - Computer Science department — *09/2019 – 03/2020*
  Visiting Student;
  Advisor: Prof. Maks Ovsjanikov

Fellowships and Memberships

- **ELLIS - European Lab for Learning and Intelligent Systems** — *15/05/2023 – present*
  Member
- **Marie Curie Alumni** — *2023 – present*
  Member

Tuebingen, October 10, 2024,

- **Marie Skłodowska-Curie Action HORIZON 2021-2027** *2023 – 2024*
  Postdoctoral Research Fellow
- **Alexander von Humboldt Foundation** *2022 – 2023*
  Postdoctoral Research Fellow

Education

- **University of Verona,** Italy – Computer Science department *1/10/2017 – 10/06/2021*
  Ph.D in Computer Science *with the additional label of Doctor Europeaus*.
  (**with MIUR scolarship**; concluded without extention requests)
  Thesis: *Merging, extending and learning representations for 3D shape matching*.
  Advisor: Umberto Castellani
  Examiners: Alex Bronstein (Technion), Tobias Schreck (Graz University), Stefanie Wuhrer (INRIA Grenoble)
  Reviewers: Alex Bronstein (Technion), Stefanie Wuhrer (INRIA Grenoble)
  Awarded Best PhD Thesis in Computer Graphics by Italian Chapter of Eurographics (EG-Italy)
- **Polytechnic University of Milan,** Italy – Computer Science department *07/2020*
  Attendence at Graduate School on Machine Learning for Non-Matrix Data
- **University of Milan,** Italy – Computer Science department *05/2019*
  Attendence at Graduate School at Symposium on Geometry Processing 2019 (SGP).
- **University of Brescia,** Italy – Computer Science department *10/2018*
  Attendence at International School on Graphics and Geometry Processing for Digital Manufacturing (EGIT) at Italian Chapter of Eurographics (STAG).
- **Standford University,** coursera.org *08/2017 – 07/2018*
  Deep Learning Specialization; held by *Prof. Andrew Ng*
  Certificate
- **Alberta University,** coursera.org *01/2021 – 04/2021*
  Reinforcement Learning Specialization; held by *Prof. Marta White and Prof. Adam White*
  Certificate
- **University of Verona,** Italy *2013 – 2017*
  Laurea Specialistica Degree (2 years degree, M.S. equivalent) in Computer Science and Engineering.
  Thesis: *Augmented Reality for training of pretend play in children with Autism Spectrum Disorder.*
  Grade: *103/110*
- **University of Verona,** Italy *2010 – 2013*
  Laurea Degree (3 years degree, B.S. equivalent) in Computer Science.
  Grade: *101/110*

Professional Activities / Academic Service

- **Associate Editor** *06/2024-present*
  AI Communications, journal on Artificial Intelligence.
- **Session Chair** *2023, 2024*
  IMPRS-IS Interview Symposium at Max Planck Intelligent-Systems, *Tübingen (Germany)*.
- **Volunteers Chair** *12/2021*
  STAG 2021, Smart Tools and Applications in Graphics, *Roma, Italy*.
- **Committee Member** *08/2021*
  SIGGRAPH Research Career Development Committee, *Tokyo, Japan (remotely)*.
- **Invited Mentor** *05/2021*
  International Conference on Learning Representations (ICLR) 2021, *Virtual*.
- **SHREC19 Challenge Track Organizer** *02/2019*
  Eurographics 2019 Workshop on 3D Object Retrieval, *Genova, Italy*.
  Track: Correspondence in Humans with Different Connectivity.
  Web site

Tuebingen, October 10, 2024, 

- **Volunteers Chair** *09/2018*
  3DV 2018, International Conference on 3D Vision, *Verona, Italy*.

- **Volunteer Student**
  ICCV 2017, Venice, Italy.
  Eurographics 2019, *Venice, Italy*.

- **High School advanced-class in Computer Skills Teacher** *11/2012 – 05/2013*
  ITCS Aldo Pasoli, *Via Girolamo dalla Corte, 15 - 37131 Verona, Italy*.
- **Computer literacy course Teacher** *11/2012 – 05/2013*
  ITCS Aldo Pasoli, *Via Girolamo dalla Corte, 15 - 37131 Verona, Italy*.
- **Area Chair, Meta-Reviewer**
  - TinyPapers (ICLR Track); 2023
- **Reviewer (Conferences)**
  - BMVC; 2018
  - 3DV; 2019 - 2024
  - GMDL; 2019
  - NeurIPS; 2020 - 2024
  - ICLR; 2021 - 2025
  - AAAI; 2021
  - CVPR; 2021 - 2024
  - ICML; 2021 - 2024
  - 3DOR; 2021, 2022
  - MVA; 2021
  - ICCV; 2021, 2023
  - Siggraph ASIA; 2021, 2023
  - Siggraph; 2024
  - EuroGraphics; 2022
  - WACV; 2022
  - ECCV; 2022, 2024
  - ICIAP; 2023
  - TinyPapers (ICLR Track); 2023, 2024
  - LoG; 2023
  - ACL Rolling Review; 2024
  - UniReps; 2023
  - Behavioral ML (NeurIPS workshop); 2024
- **Reviewer (Journals)**
  - IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)
  - IEEE Transactions on Computer Visualization and Computer Graphics (TVCG)
  - International Journal of Industrial Ergonomics
  - Computer and Graphics Journal (C&G)
  - International Journal of Computer Vision (IJCV)
  - IEEE/CAA Journal of Automatica Sinica
  - Journal of Imaging
  - IEEE Transactions on Image Processing
  - IEEE Transactions on Circuits and Systems for Video Technology
  - Neural Processing Letters

Teaching

- **Virtual Humans** *10/2023 - 02/2024*
  Teaching Assistant; Exerciser, M.Sc. in Machine Learning, University of Tuebingen.
  Teaching responsibility: 10 hours, Attendance: ~30, *Tuebingen, Germany*.

- **Geometry processing and machine learning for geometric data** *23/11/2023 - 28/11/2023*
  Lecturer and organizer; Doctoral School at Bicocca University of Milan.
  Teaching responsibility: 12 hours, *Milan, Italy*.

- **Functional Correspondence from Discrete Geometry to Learning** *01/07/2023*
  Lecturer and organizer; at the Graduate School of the Symposium on Geometry Processing 2023.
  Teaching responsibility: 1 hour, *Genoa, Italy*.

Tuebingen, October 10, 2024,

- **Tutorial on Inverse Computational Spectral Geometry** *23/05/2022*
  Lecturer and organizer; at ICIAP 2021.
  Length: 4 hours, Attendance: ~30, *Lecce, Italy*.

- **Tutorial on Inverse Computational Spectral Geometry** *25/04/2022*
  Lecturer and organizer; at EuroGraphics 2022.
  Length: 4 hours, Attendance: ~180, *Reims, France*.

- **Numerical methods for Computer Science** *02/2022 - 04/2023*
  Assistant Professor; Lecturer and Exerciser, M.Sc. in Computer Science, Sapienza University of Rome.
  Teaching responsibility: 20 hours, Enrollment: ~10 students, *Roma, Italy*.

- **Algorithm Design** *02/2022 - 04/2023*
  Adjunct Professor; Exerciser and member of the Exam Committee, M.Sc. in Computer Science, Sapienza University of Rome. Teaching responsibility: 24 hours, Enrollment: ~100 students, *Roma, Italy*.

- **Course on Data Science for High-School** *01/02/2021 - 07/02/2021*
  Teacher and organizer; School-work learning programme with CD: 50/50 association at the High School Morgagni.
  Teaching responsibility: 40 hours, Attendance: 26, *Rome, Italy*.

- **Tutorial on Spectral Geometry in Practice** *30/11/2021*
  Lecturer and organizer; at the International Conference on 3D Vision 2021.
  Length: 4 hours, Attendance: ~250, *London, United Kingdom*.

- **Algorithm Design** *04/2021 - 04/2022*
  Adjunct Professor; Exerciser and member of the Exam Committee, M.Sc. in Computer Science, Sapienza University of Rome. Teaching responsibility: 24 hours, Enrollment: ~100 students, *Roma, Italy*.

- **Spectral Shape Analysis for 3D matching** *06/2020*
  Lecturer and Organizer, Ph.D. School in Computer Science, University of Verona, Algorithm Design. Teaching responsibility: 6 hours, Enrollment: ~20 students, *Verona, Italy*.

- **Pattern Recognition** *03/2019 – 06/2019*
  Tutor student, Master degree in Computer Science and Computer Engineering, University of Verona. *Verona, Italy*.

- **Image Processing II** *11/2018 – 02/2019*
  Tutor student, Master degree in Computer Science and Computer Engineering, University of Verona. *Verona, Italy*.

- **Introduction to Programming** *03/2018 – 06/2018*
  Tutor student, Bachelor degree in Bioinformatics, University of Verona. *Verona, Italy*.

Honors and Awards

- **Italian Habilitation as Associate Professor in Computer Science.** *07/2024*
  01/B1
- **Italian Habilitation as Associate Professor in Information Processing Systems** *07/2024*
  09/H1
- **Best paper in Topology and Graphs Category** *16/12/2023*
  at NeurIPS 2023 Workshop on Symmetry and Geometry in Neural Representations (NeurReps);
  3 awarded papers out of 65.
  Paper title: *Spectral Maps for Learning on Subgraphs*
- **Outstanding Reviewer Award** *2023*
  at The Conference on Neural Information Processing Systems (NeurIPS 2023)
- **Matteo Dellepiane Award for Best PhD Thesis in Computer Graphics** *18/11/2022*
  at the Italian Chapter of EuroGraphics (EG-Italy)
- **Outstanding Reviewer Award** *2022*
  at The Conference on Neural Information Processing Systems (NeurIPS 2022)

Tuebingen, October 10, 2024, 

- **Outstanding Reviewer Award** *2022*
  at The IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR 2022)
- **Top Cited Article 2020-2021 Award** *2022*
  Computer Graphics Forum Journal
  Paper title: *FARM: Functional Automatic Registration Method for 3D Human Bodies*
- **Outstanding Reviewer Award** *2021*
  at the International Conference on 3D Vision (3DV 2021)
- **Outstanding Reviewer Award** *2021*
  at the International Conference on Learning Representations (ICLR 2021)
- **Best Student Paper Award** *2020*
  at the International Conference on 3D Vision (3DV 2020); (3 best papers awards out of 123 papers)
  Paper title: *Instant recovery of shape from spectrum via latent space connections*
- **Outstanding Reviewer Award** *2020*
  at the International Conference on 3D Vision (3DV 2020)
- **Best Poster in Computer Science** *07/05/2018*
  at the University of Verona's PhD Day Event
  Poster title: *FARM: Functional Automatic Registration Method for 3D Human Bodies*

Funding and Grants

- **Marie Skłodowska-Curie Post-Doctoral Fellowship (MSCA-2022-PF-EF)** *01/08/2023 - 01/08/2024*
  Project: CoMBo - Correspondence through Millions Bodies: a large-scale, functional, and implicit data-driven method for 3D Humans matching (ID: 101109330)
  Funding: European Commission HORIZON 2021-2027. (~87K€)
  Role: **Fellowship Holder (Researcher)**
  Host: Prof. G. Pons-Moll; 12 months

- **Alexander von Humboldt Postdoctoral Fellowship** *01/07/2022 - 30/06/2023*
  Project: Functional shape matching for implicit representations
  Funding: Alexander von Humboldt Foundation (~36K€)
  Role: **Fellowship Holder**
  Host: Prof. G. Pons-Moll; 12 months

- **Sapienza Research Starting Grant 2022 - Type 2** *24/10/2022*
  Project: "Functional shape matching for implicit representations"
  Funding: Sapienza University of Rome (~2.3K€)
  Role: **Principal Investigator**; 12 months

- **Imminent Research Grant** *05/04/2022*
  Project: "Incremental Parallel Inference for Machine Translation"
  Funding: Translated s.r.l. (20K€)
  Role: **Co-PI**; 12 months

- **Funds for international mobility - long periods** *09/2019 - 03/2020*
  Funding: University of Verona (3.5K€); 6 months

- **MIUR Scholarship** for pursuing a PhD in Computer Science at University of Verona. *2017*
  Funding: ~45k €, 3 years

International Research Visits

- **University of Tübingen (DE)** *02-04/05/2022*
  Research visit (~3 days); collaborator *Prof. Gerard Pons-Moll*.

- **École polytechnique (FRA)** *05/09/2019 - 13/03/2020*
  Research visit (~6 months); collaborator *Prof. Maks Ovsjanikov*.

- **University College London (UK)** *23-28/06/2018*
  Research visit (~1 week); collaborator *Prof. Niloy Mitra*.

Tuebingen, October 10, 2024, 

Invited Talks and Seminars

- ***Real Virtual Humans Project*** *17/10/2024*
  Carl Zeiss Foundation, Stuttgart
- ***Tailoring the Vision: How Large Models Fit 3D Humans in Clothing*** *30/09/2024*
  Invited speaker at FashionAI Workshop, ECCV 2024
- ***Connecting 3D Virtual Humans: from geometry to interacting avatars*** *25/04/2024*
  TUM Vision Group; hosted by *Prof. D. Cremers*
- ***Connecting the (Digital) Dots: Studying relations in 3D geometries for human virtualization*** *07/02/2024*
  University of Tuebingen, College of Fellows, Humboldt Lectures
- ***Connecting the (Digital) Dots: Learning Non-Rigid Correspondence to Match 3D Humans*** *26/01/2024*
  University of Tuebingen, AI Center, 10-minutes talk seminars
- ***Connecting 3D Virtual Humans: from geometry to interacting avatars*** *02/11/2023*
  University of Turin; hosted by *Prof. A. Fiandrotti*
- ***Toward Relational Virtual Humans*** *29/06/2023*
  Bicocca, University of Milan; hosted by *Dr. S. Melzi*
- ***Toward Relational Virtual Humans*** *27/06/2023*
  University of Verona; hosted by *Prof. U. Castellani*
- ***The researcher's job*** *24/03/2023*
  Istituto di Istruzione Superiore Evangelista Torricelli, Milano
- ***Merging, extending and learning representations for 3D shape matching*** *18/11/2022*
  Smart Tools and Applications in Graphics (STAG), Cagliari
- ***Data-driven spectral analysis for practical geometry processing*** *05/05/2022*
  Pi School of AI, Rome
- ***Data-driven spectral analysis for practical geometry processing*** *03/05/2022*
  Tubingen University; hosted by *Prof. G. Pons-Moll.*
- ***Data-driven spectral analysis for practical geometry processing*** *31/03/2022*
  Universitat Pompeu Fabra (UPF); hosted by *Prof. C. Ballester.*
- ***Digital Humans: minds and bodies*** *11/02/2022*
  The Sapienza School for Advanced Studies; hosted by *Prof. E. Rodolà*.
- ***When the sun goes down: a story on telling stories*** *12/11/2021*
  DiDo Workshop, Sapienza University of Rome
- ***Functional Matching*** *11/11/2021*
  DiDo Workshop, Sapienza University of Rome
- ***Digital Humans*** *19/04/2021*
  OpenDI, Sapienza University of Rome
- ***Functional Maps and Non-Rigid Registration: A crash course*** *29/03/2021*
  Inria Strasbourg; hosted by *Prof. S. Cotin.*
- ***Digital Humans: minds and bodies*** *02/03/2021*
  The Sapienza School for Advanced Studies; hosted by *Prof. E. Rodolà*.
- ***Correspondence Learning via Linearly-invariant Embedding*** *20/11/2020*
  Sapienza University of Rome; hosted by *Prof. E. Rodolà*.
- ***Functional template based matching for human bodies.*** *04/03/2020*
  École polytechnique; hosted by *Prof. P. Memari*.
- ***Instant recovery of shape from spectrum via latent space connections*** *25/11/2020*
  International Conference on 3D Vision (3DV), 2020

Tuebingen, October 10, 2024,

- ***FARM: Functional Automatic Registration Method for 3D Human Bodies.*** *29/05/2019*
  Eurographics (EG), 2020
- ***POP: full Parametric modelling estimation for Occluded People.*** *05/05/2019*
  The 12th Eurographics Workshop on 3D Object Retrieval (3DOR), 2019
- ***Introduction to Spectral Graph Theory: from Fourier to 3D models.*** *18,19,20/12/2018*
  University of Verona; hosted by *Prof. G. Menegaz*.

Participation in Research projects

- ***Fair Geometry: Toward Algorithmic Debiasing in Geometric Deep Learning.*** *2021 - present*
  Role: Researcher.
  Funding: Google Research
  Coordinator: Prof. E. Rodolà ("La Sapienza" University of Rome).
- ***SPECGEO - Spectral geometric methods in practice.*** *2020 - present*
  Role: Researcher (leading the work package WP4 - Deep learning applications);
  Funding: ERC Starting Grant (Horizon2020).
  Coordinator: Prof. E. Rodolà ("La Sapienza" University of Rome).
- ***Nuovi approcci di geometric deep learning ed applicazioni cross-dominio.***
  New geometric deep learning approaches and cross-domain applications.
  01/12/2021 - 30/06/2022
  Role: PostDoc Researcher.
  Funding: ERC Starting Grant SPECGEO (41K)
  Coordinator: Prof. E. Rodolà ("La Sapienza" University of Rome).
- ***Metodi di predizione strutturata tramite geometric deep learning e nuove rappresentazioni spettrali.***
  New methods and spectral representations for structured prediction via geometric deep learning.
  01/12/2020 - 01/12/2021
  Role: PostDoc Researcher.
  Funding: ERC Starting Grant SPECGEO (25K)
  Coordinator: Prof. E. Rodolà ("La Sapienza" University of Rome).
- ***EXPROTEA - Exploring Relations in Structured Data with Functional Maps.*** *2019 - 2022*
  Role: Researcher (External Collaborator);
  Funding: ERC Starting Grant (Horizon2020).
  Coordinator: Prof. M. Ovsjanikov (École Polytechnique).

Supervising and mentoring activities

- ***Graduate Students (official co-advisor)***
  - Mattia Masiero, 2025, (Tuebingen, Thesis)
  - Francesco Palandra, 2024, (Rome, Thesis)
  - Andrea Sanchietti, 2024, (Rome, Thesis)
  - Nikita Larichev, 2022, (Siegen, Thesis)
  - Luis Mautone, 2022, (Rome, Thesis)
  - Valentino Maiorca, 2021 (Rome, Thesis)
  - Silvio Severino, 2021 (Rome, Thesis)
  - Marco Pegoraro, 2021 (Verona, Thesis) - **Awarded Best Thesis at the Italian Chapter of Eurographics**
  - Filippo Bardon, 2019 (Verona, Thesis)
- ***Research Assistant***
  - Yun Kuan Su, 2023, (Tuebingen)
- ***PhD Mentoring (resulted in publications)***
  - University of Verona (1 student)
  - Sapienza University of Rome ($\sim$ 12 students)
  - University of Tuebingen ($\sim$ 7 students)

Tuebingen, October 10, 2024,

Participation in industrial innovation

- ***Automatic extraction of anthropometric measurements from digital 3D scan of human bodies, (phase 1).***
  Role: Researcher. Supported by: *Igoodi S.r.l.* *27/11/2018 - 15/02/2019*
- ***Automatic extraction of anthropometric measurements from digital 3D scan of human bodies, (phase 2).***
  Role: Researcher. Supported by: *Igoodi S.r.l.* *01/08/2019 - 31/01/2020*

Other

- ***CD: 50/50, No-profit association for promoting gender equality and diversity in STEM***
  Role: Co-founder and lecturer.
  Website *09/2021 - present*

Media Coverage

- ***Translated's Research Center blog post on our research on parallel decoding for speeding up translation and language models.***
  Website *2024*
- ***The College of Fellows of the University of Tuebingen covers my research as part of the "Fellow in Focus" interviews.***
  Website *2024*
- ***Italian ministry of digital innovation lists CD:50/50 among associations addressing the digital divide in the Italian population***
  Website *2021*
- ***The magazine of University of Verona reports Marco Pegoraro's Best Italian Master Thesis in Computer Graphics Award for our work on inverse spectral geometry***
  Website *2021*

List of Publications

Bibliometric indices (Scopus)
Scopus *h*-index: 11
Number of citations: 514

Journals

1. Filippo Maggioli, **Riccardo Marin**, Simone Melzi, Emanuele Rodolà. *MoMaS: Mold Manifold Simulation for real-time procedural texturing*. Computer Graphics Forum (CGF), presented at Pacific Graphic (PG), 2022.
2. Marco Pegoraro, Simone Melzi, Umberto Castellani, Emanuele Rodolà, **Riccardo Marin**. *Localized Shape Modelling with Global Coherence: An Inverse Spectral Approach*. Computer Graphics Forum (CGF), presented at Symposium on Geometry Processing (SGP), 2022.
3. Pietro Musoni, **Riccardo Marin**, Simone Melzi, *A Functional Skeleton Transfer*. ACM in Computer Graphics and Interactive Techniques (PACMCGIT), 2021, presented at the Symposium of Computer Animation (SCA2021).
4. **Riccardo Marin**, Arianna Rampini, Umberto Castellani, Emanuele Rodolà, Maks Ovsjanikov, Simone Melzi. *Spectral Shape Recovery and Analysis Via Data-driven Connections*, International Journal of Computer Vision, 2021
5. Letizia Squarcina, Guido Nosari, **Riccardo Marin**, Umberto Castellani, Marcella Bellani, Carolina Bonivento, Franco Fabbro, Massimo Molteni, Paolo Brambilla. *Automatic classification of autism spectrum disorder in children using cortical thickness and support vector machine*. Brain and Behavior, 2021
6. Eleonora Tagliabue, Diego Dall'Alba, Micha Pfeiffer, Marco Piccinelli, **Riccardo Marin**, Umberto Castellani, Stefanie Speidel, Paolo Fiorini. *Data-driven Intra-operative Estimation of Anatomical Attachments for Autonomous Tissue Dissection*. IEEE Robotics and Automation Letters (RA-L), 2021

Tuebingen, October 10, 2024, 

7. Roberto M.Dyke, Yu-Kun Lai, Paul L.Rosin, Stefano Zappalà, Seana Dykes, Daoliang Guo, Kun Li, **Riccardo Marin**, Simone Melzi, Jingyu Yang. *SHREC'20: Shape correspondence with non-isometric deformations*. Computer & Graphics, 2020.

8. Simone Melzi, **Riccardo Marin**, Pietro Musoni, Filippo Bardon, Marco Tarini, Umberto Castellani. *Intrinsic/extrinsic embedding representation for functional remeshing of 3D shapes*. Computer & Graphics, 2020.

9. **Riccardo Marin**, Simone Melzi, Emanuele Rodolà, Umberto Castellani. *FARM: Functional Automatic Registration Method for 3D Human Bodies*. Computer Graphics Forum (CGF), 2019. Presented at Eurographics (EG), 2020. [**Top Cited Article in CGF 2020-2021** Award]

Conference Proceedings

1. Yuxuan Xue, Xianghui Xie, **Riccardo Marin**, Gerard Pons-Moll. *Human 3Diffusion: Realistic Avatar Creation via Explicit 3D Consistent Diffusion Models*. The Thirty-eighth Annual Conference on Neural Information Processing Systems (NeurIPS), 2024.

2. **Riccardo Marin**, Enric Corona, Gerard Pons-Moll. *NICP: Neural ICP for 3D Human Registration at Scale*. European Conference on Computer Vision (ECCV), 2024.

3. Dimitrije Antic, Garvita Tiwari, Batuhan Ozcomlekci, **Riccardo Marin**, Gerard Pons-Moll. *CloSe: A 3D Clothing Segmentation Dataset and Model*. International Conference on 3D Vision (3DV), 2024.

4. Vladimir Guzov, Julian Chibane, **Riccardo Marin**, Yannan He, Torsten Sattler, Gerard Pons-Moll. *Interaction Replica: Tracking human-object interaction and scene changes from human motion*. International Conference on 3D Vision (3DV), 2024.

5. Yuxuan Xue, Bharat Bhatnagar **Riccardo Marin**, Nikolaos Sarafianos, Yuanlu Xu, Tony Tung, Gerard Pons-Moll. *NSF: Neural Surface Fields for Human Modeling from Monocular Depth*. International Conference on Computer Vision (ICCV), 2023.

6. Ilya A. Petrov, **Riccardo Marin**, Julian Chibane, Gerard Pons-Moll. *Object pop-up: Can we infer 3D objects and their poses from human interactions alone?*. IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023.

7. Andrea Santilli, Silvio Severino, Emilian Postolache, Valentino Maiorca, Michele Mancusi, **Riccardo Marin**, Emanuele Rodolà. *Accelerating Transformer Inference for Translation via Parallel Decoding*. 61st Annual Meeting of the Association for Computational Linguistics (ACL), 2023.

8. Donato Crisostomi, Simone Antonelli, Valentino Maiorca, Luca Moschella, **Riccardo Marin**, Emanuele Rodolà. *Metric Based Few-Shot Graph Classification*. Learning on Graphs Conference (LoG), 2022.

9. Ramana Subramanyam Sundararaman, **Riccardo Marin**, Emanuele Rodolà, Maks Ovsjanikov. *Reduced Representation of Deformation Fields for Effective Non-rigid Shape Matching*. Conference on Neural Information Processing Systems (NeurIPS), 2022.

10. Giovanni Trappolini, Luca Cosmo, Luca Moschella, **Riccardo Marin**, Simone Melzi, Emanuele Rodolà. *Shape registration in the time of transformers*. Conference on Neural Information Processing Systems (NeurIPS), 2021.

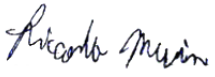
11. Eleonora Tagliabue, Marco Piccinelli, Diego Dall'Alba, Juan Verde, Micha Pfeiffer, **Riccardo Marin**, Stefanie Speidel, Paolo Fiorini, Stéphane Cotin. *Intra-operative Update of Boundary Conditions for Patient-specific Surgical Simulation*, MICCAI, 2021

12. **Riccardo Marin**, Marie-Julie Rakotosaona, Simone Melzi, Maks Ovsjanikov. *Correspondence Learning via Linearly-invariant Embedding*. Conference on Neural Information Processing Systems (NeurIPS), 2020.

13. **Riccardo Marin**, Arianna Rampini, Umberto Castellani, Emanuele Rodolà, Maks Ovsjanikov, Simone Melzi. *Instant recovery of shape from spectrum via latent space connections*. International Conference on 3D Vision (3DV), 2020. [**Best Student Paper Award**]

14. **Riccardo Marin**, Simone Melzi, Emanuele Rodolà, Umberto Castellani. *High-Resolution Augmentation for Automatic Template-Based Matching of Human Models*. International Conference on 3D Vision (3DV), 2019.

Workshops and Short papers

Tuebingen, October 10, 2024, 

1. Marco Pegoraro, **Riccardo Marin**, Arianna Rampini, Simone Melzi, Luca Cosmo, Emanuele RodolÃă. *Spectral Maps for Learning on Subgraphs*. NeurIPS 2023 Workshop on Symmetry and Geometry in Neural Representations, 2023. [**Best Paper Award in Topology and Graphs**]

2. Roberto M. Dyke, Feng Zhou, Yu-Kun. Lai, Paul L. Rosin, Daoliang Guo, Kun Li, **Riccardo Marin**, Jingyu Yang. *SHREC'20: Non-rigid Shape Correspondence of Physically-Based Deformations*. 13th Workshop on 3D Object Retrieval (3DOR), 2020.

3. **Riccardo Marin**, Simone Melzi, Niloy Mitra, Umberto Castellani. *POP: full Parametric modelling estimation for Occluded People*. The 12th Eurographics Workshop on 3D Object Retrieval (3DOR), 2019.

4. **Riccardo Marin**, Simone Melzi, Pietro Musoni, Filippo Bardon, Marco Tarini, Umberto Castellani. *CMH: Coordinates Manifold Harmonics for Functional Remeshing*. The 12th Eurographics Workshop on 3D Object Retrieval (3DOR), 2019.

5. Simone Melzi, **Riccardo Marin**, Pietro Musoni, Umberto Castellani, Marco Tarini. Visual Assessments of Functional Maps. Poster at Symposium on Geometry Processing (SGP), 2019.

6. Simone Melzi, **Riccardo Marin**, Emanuele Rodolà, Umberto Castellani, Jing Ren, Adrien Poulenard, Peter Wonka, Maks Ovsjanikov. *SHREC'19: Matching Humans with Different Connectivity*, the 12th Eurographics Workshop on 3D Object Retrieval (3DOR), 2019.

Tuebingen, October 10, 2024, 

UNIVERSITÀ di VERONA

MATRICOLA VR379993 N. CERTIF. 2016709926/LAU_SSD

Si attesta che **MARIN RICCARDO**,
nato a Verona (VR) il 24 settembre 1991,
ha superato presso questa Università
l'esame finale di
Laurea Magistrale in INGEGNERIA E SCIENZE INFORMATICHE
appartenente alla
CLASSE LM-32 - Classe delle lauree magistrali in Ingegneria informatica
il giorno 21/03/2017
riportando punti 103/110 (centotre/centodieci) .

Al titolo conseguito compete la qualifica accademica di "Dottore magistrale" (di cui al decreto M.I.U.R. n. 270/2004, art. 13, comma 7).

Avendo superato i seguenti esami:

TIPO	DATA	ESAME	S.S.D.	CFU	VOTO
	08/07/2014	ALGORITMI	ING-INF/05	12	23/30
	02/02/2015	PROGETTAZIONE DI SISTEMI EMBEDDED	ING-INF/05	6	22/30
	27/02/2015	FONDAMENTI	INF/01	12	23/30
	18/09/2015	SISTEMI	ING-INF/05	12	19/30
	01/02/2016	SISTEMI OPERATIVI AVANZATI	ING-INF/05	6	26/30
	03/02/2016	INTELLIGENZA ARTIFICIALE	INF/01	6	28/30
	11/02/2016	SFIDE DI PROGRAMMAZIONE	-	6	30/30 L
	14/06/2016	SISTEMI EMBEDDED DI RETE	ING-INF/05	6	30/30
	15/06/2016	SOFTWARE PER SISTEMI EMBEDDED	INF/01	6	30/30 L
	23/06/2016	ARCHITETTURE AVANZATE	ING-INF/05	6	29/30
	13/07/2016	TEORIE E TECNICHE DEL RICONOSCIMENTO	ING-INF/05	6	26/30

Tuebingen, October 10, 2024,

UNIVERSITÀ di VERONA

TIPO	DATA	ESAME	S.S.D.	CFU	VOTO
	08/09/2016	ORGANIZZAZIONE AZIENDALE	SECS-P/10	6	30/30
	15/02/2017	SISTEMI AVANZATI PER IL RICONOSCIMENTO	INF/01	6	30/30
	21/03/2017	PROVA FINALE		24	Idoneo

TOTALE CFU ACQUISITI **120.00**

Esami in soprannumero rispetto al piano prescelto:

TIPO	DATA	ESAME	S.S.D.	CFU	VOTO
	09/02/2017	VISIONE COMPUTAZIONALE	ING-INF/05	6	30/30 L

TOTALE CFU **6.00**

Nessun debito formativo.

LEGENDA:

C: CONVALIDATO
O: OPZIONALE
S.S.D.: SETTORE SCIENTIFICO DISCIPLINARE
CFU: CREDITO FORMATIVO UNIVERSITARIO

La durata normale del suddetto corso è di due anni.

Si rilascia in carta libera per gli usi consentiti dalla tab. all. B) del D.P.R. 642/72 del 26.10.1972 e successive modificazioni.
Ai sensi dell'art. 15, comma 1 della legge 12 novembre 2011, n. 183 il presente certificato non può essere prodotto agli organi della Pubblica amministrazione o ai privati gestori di pubblici servizi.Valido per l'estero.
Il certificato è emesso a norma dell'art. 3, comma 2 del Decreto L.vo 12.02.1993, n.39

I dati del presente certificato sono ricavati dal sistema di gestione delle carriere degli studenti.

VERONA, 3 maggio 2017

IL DIRIGENTE
dott. avv. Elisa Silvestri

Tuebingen, October 10, 2024,

UNIVERSITÀ di VERONA

MATRICOLA VR350801 N. CERTIF. 2016709931/LAU_SSD

Si attesta che **MARIN RICCARDO**,
nato a Verona (VR) il 24 settembre 1991,
ha superato presso questa Università
l'esame finale di
Laurea in INFORMATICA
appartenente alla
CLASSE L-31 - Classe delle lauree in Scienze e tecnologie informatiche
il giorno 16/10/2013
riportando punti 101/110 (centuno/centodieci) .

Al titolo conseguito compete la qualifica accademica di "Dottore" (di cui al decreto M.I.U.R. n. 270/2004, art. 13, comma 7).

Avendo superato i seguenti esami:

TIPO	DATA	ESAME	S.S.D.	CFU	VOTO
	14/02/2011	ALGEBRA LINEARE	MAT/02	6	21/30
	28/02/2011	ANALISI MATEMATICA I	MAT/05	6	24/30
	22/06/2011	LOGICA E MATEMATICA DISCRETA	INF/01	6	20/30
	11/07/2011	FISICA I	FIS/01	6	18/30
	12/07/2011	PROGRAMMAZIONE I	INF/01	12	30/30
	28/07/2011	PROBABILITA' E STATISTICA	MAT/06	6	18/30
	28/07/2011	ARCHITETTURA DEGLI ELABORATORI	ING-INF/05	12	29/30
	01/02/2012	RETI DI CALCOLATORI	ING-INF/05	6	27/30
	06/02/2012	PROGRAMMAZIONE II	INF/01	6	30/30
	27/02/2012	ANALISI MATEMATICA II	MAT/05	6	25/30
	19/06/2012	FISICA II	FIS/01	6	18/30

Tuebingen, October 10, 2024,

UNIVERSITÀ di VERONA

TIPO	DATA	ESAME	S.S.D.	CFU	VOTO
	10/07/2012	SISTEMI OPERATIVI	ING-INF/05	12	25/30
	19/07/2012	CALCOLO NUMERICO	MAT/08	6	22/30
	15/09/2012	LINGUA INGLESE COMPETENZA LINGUISTICA - LIV.B1(COMPLETO)	-	6	Approvato
	25/09/2012	ALGORITMI	INF/01	12	30/30 L
	04/02/2013	FONDAMENTI DELL'INFORMATICA	INF/01	6	24/30
	05/04/2013	TIROCINIO	-	6	Approvato
	17/06/2013	LINGUAGGI E COMPILATORI	INF/01	12	27/30
	18/06/2013	CRITTOGRAFIA	INF/01	6	30/30 L
	21/06/2013	SICUREZZA DELLE RETI	ING-INF/05	6	25/30
	21/06/2013	INGEGNERIA DEL SOFTWARE	INF/01	6	23/30
	24/06/2013	GRAFICA AL CALCOLATORE	INF/01	6	27/30
	17/09/2013	BASI DI DATI	INF/01	12	28/30
	16/10/2013	PROVA FINALE		6	Idoneo

TOTALE CFU ACQUISITI **180.00**

Nessun esame in soprannumero rispetto al piano prescelto.

Nessun debito formativo.

LEGENDA:

C: CONVALIDATO
O: OPZIONALE
S.S.D.: SETTORE SCIENTIFICO DISCIPLINARE
CFU: CREDITO FORMATIVO UNIVERSITARIO

La durata normale del suddetto corso è di tre anni.

Si rilascia in carta libera per gli usi consentiti dalla tab. all. B) del D.P.R. 642/72 del 26.10.1972 e successive modificazioni.

Copia del presente certificato, rilasciato in originale, viene conservata negli archivi elettronici del sistema di gestione delle carriere degli studenti. La legge punisce ogni contraffazione.

Tuebingen, October 10, 2024,

UNIVERSITÀ
di VERONA

Ai sensi dell'art. 15, comma 1 della legge 12 novembre 2011, n. 183 il presente certificato non può essere prodotto agli organi della Pubblica amministrazione o ai privati gestori di pubblici servizi.Valido per l'estero.
Il certificato è emesso a norma dell'art. 3, comma 2 del Decreto L.vo 12.02.1993, n.39

I dati del presente certificato sono ricavati dal sistema di gestione delle carriere degli studenti.

VERONA, 3 maggio 2017

IL DIRIGENTE
dott. avv. Elisa Silvestri

Copia del presente certificato, rilasciato in originale, viene conservata negli archivi elettronici del sistema di gestione delle carriere degli studenti. La legge punisce ogni contraffazione.

Tuebingen, October 10, 2024,