

Riccardo Marin, Ph.D.

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- 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: January 19, 2024

Research Interests

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

Research Profile

I am a Post Doctoral researcher, awarded with a Humboldt Post-Doctoral Fellowship and a Marie Skłodowska-Curie Post-Doctoral Fellowship, at the University of Tübingen in the Real-Virtual Humans group led by Gerard Pons-Moll. Previously, I was a post-doc at Sapienza University of Rome in the GLADIA group led by Emanuele Rodolà, leading a work package of SPEC GEO ERC project. I followed the University of Verona's Ph.D program in Computer Science, under the supervision of 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 appears in top-level conferences and journals (NeurIPS, IJCV, CVPR, ICCV, CGF) and collect 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 a reviewer for several journals and conferences (PAMI, TCVG, CVPR, NeurIPS, ICLR, ICML), obtaining six Outstanding Reviewer Awards. I am involved in many fruitful collaborations (École polytechnique (LIX), Max-Planck Institute (MPI), INRIA Strasbourg, Sapienza University of Rome, University College London (UCL), University of Milan, University of Verona), and projects financed by Google and ERC.

Academic Appointments

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

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| • ELLIS - European Lab for Learning and Intelligent Systems
Member | 2023 – present |
| • Marie Skłodowska-Curie Action HORIZON 2021-2027
Postdoctoral Research Fellow | 2023 – present |
| • Alexander von Humboldt Foundation
Postdoctoral Research Fellow | 2022 – 2023 |
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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 scholarship; concluded without extension requests)
Thesis: *Merging, extending and learning representations for 3D shape matching.*
Advisor: Umberto Castellani
Examiners: Alex Bronstein (Technion), Tobias Schreck (Graz University), Stefanie Wuhler (INRIA Grenoble)
Reviewers: Alex Bronstein (Technion), Stefanie Wuhler (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
Attendance at Graduate School on Machine Learning for Non-Matrix Data
 - **University of Milan, Italy** – Computer Science department 05/2019
Attendance at Graduate School at Symposium on Geometry Processing 2019 (SGP).
 - **University of Brescia, Italy** – Computer Science department 10/2018
Attendance at International School on Graphics and Geometry Processing for Digital Manufacturing (EGIT) at Italian Chapter of Eurographics (STAG).
 - **Stanford 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
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Professional Activities / Academic Service

- **Member of Program Committee** 2023
ICLR Tiny Papers Track (DEI), Kigali, Rwanda.
- **Session Chair** 19/01/2023
IMPRS-IS Interview Symposium at Max Planck Intelligent-Systems, Tübingen (Germany).
- **Member of Program Committee** 2022
Symposium on 3D Object Retrieval, Florence (Italy).
- **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.
- **Member of Program Committee** 2021
Workshop on 3D Object Retrieval 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](#)

- **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 - 2023
 - ICLR; 2021 - 2024
 - AAAI; 2021
 - CVPR; 2021 - 2024
 - ICML; 2021 - 2024
 - 3DOR; 2021, 2022
 - MVA; 2021
 - ICCV; 2021, 2023
 - Siggraph ASIA; 2021, 2023
 - EuroGraphics; 2022
 - WACV; 2022
 - ECCV; 2022, 2024
 - ICIAP; 2023
 - TinyPapers (ICLR Track); 2023
 - LoG; 2023
 - **Reviewer (Journals)**
 - IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI); 2022 - 2024
 - IEEE Transactions on Computer Visualization and Computer Graphics (TVCG), 2019 - 2023
 - 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
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Teaching

- **Virtual Humans** 10/2023 - 02/2024
Teaching Assistant; Exerciser, M.Sc. in Machine Learning, University of Tuebingen.
Teaching responsibility: 20 hours, Attendance: ~30, *Tuebingen, Germany*.
- **Geometry processing and machine learning for geometric data** 23/11/2023 - 28/2023
Lecturer and organizer; Doctoral School at Bicocca University of Milan.
Teaching responsibility: 24 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.
Length: 1 hour, *Genoa, Italy*.
- **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

- **Best paper in Topology and Graphs Category** 16/12/2023
at NeurIPS 2023 Workshop on Symmetry and Geometry in Neural Representations (NeurReps)
Paper title: *Spectral Maps for Learning on Subgraphs*
- **Outstanding Reviewer Award** 2022
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)
- **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).
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*
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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
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
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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*.
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Invited Talks and Seminars

- **Connecting 3D Virtual Humans: from geometry to interacting avatars** 02/11/2023
University of Turin; hosted by *Prof. A. Fianrotti*
- **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
- *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)**
 - 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)

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

- **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
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List of Publications

Bibliometric indices (Scopus) compared to National Scientific Habilitation (ASN) for Computer Science (01/B1):

h-index: 9 (ASN Associate: 7/ Full: 10)

Number of citations: 425 (ASN Associate: 157/ Full: 304)

Number of Journals: 9 (ASN Associate: 4/ Full: 9)

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
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. 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.
2. 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.
3. 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.
4. 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.
5. Andrea Santilli, Silvio Severino, Emiliano 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.
6. Donato Crisostomi, Simone Antonelli, Valentino Maiorca, Luca Moschella, **Riccardo Marin**, Emanuele Rodolà. *Metric Based Few-Shot Graph Classification*. Learning on Graphs Conference (LoG), 2022.

7. 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.
8. 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.
9. 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
10. **Riccardo Marin**, Marie-Julie Rakotosaona, Simone Melzi, Maks Ovsjanikov. *Correspondence Learning via Linearly-invariant Embedding*. Conference on Neural Information Processing Systems (NeurIPS), 2020.
11. **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]**
12. **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

1. Marco Pegoraro, **Riccardo Marin**, Arianna Rampini, Simone Melzi, Luca Cosmo, Emanuele Rodolà. *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.

ArXiv

1. **Riccardo Marin**, Enric Corona, Gerard Pons-Moll. *Geometric Awareness in Neural Fields for 3D Human Registration*. 2023.