Riccardo Marin, Ph.D.

Contact:

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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 5, 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 SPECGEO 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

- **University of Tübingen,** Germany - Computer Science department *08/2023 – 08/2024*
  European (Post doctoral) researcher, MSCA-IF 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 *12/2020 – 06/2022*
  Post Doctoral researcher;
  Advisor: Prof. Emanuele Rodolà

- **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)

- **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** *2023 – present*
  Member

- **Marie Skłodowska-Curie Action HORIZON 2021-2027** *2023 – present*
  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

- **Member of Program Commitee** *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 Commitee** *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 Commitee** *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
  - 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

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*

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

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*.

Invited Talks and 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*
  Smart Tools and Applications in Graphics (STAG), Cagliari   *18/11/2022*

- *Data-driven spectral analysis for practical geometry processing*
  Pi School of AI, Rome   *05/05/2022*

- *Data-driven spectral analysis for practical geometry processing*
  Tubingen University; hosted by *Prof. G. Pons-Moll.*   *03/05/2022*

- *Data-driven spectral analysis for practical geometry processing*
  Universitat Pompeu Fabra (UPF); hosted by *Prof. C. Ballester.*   *31/03/2022*

- *Digital Humans: minds and bodies*
  The Sapienza School for Advanced Studies; hosted by *Prof. E. Rodolà.*   *11/02/2022*

- *When the sun goes down: a story on telling stories*
  DiDo Workshop, Sapienza University of Rome   *12/11/2021*

- *Functional Matching*
  DiDo Workshop, Sapienza University of Rome   *11/11/2021*

- *Digital Humans*
  OpenDI, Sapienza University of Rome   *19/04/2021*

- *Functional Maps and Non-Rigid Registration: A crash course*
  Inria Strasbourg; hosted by *Prof. S. Cotin.*   *29/03/2021*

- *Digital Humans: minds and bodies*
  The Sapienza School for Advanced Studies; hosted by *Prof. E. Rodolà.*   *02/03/2021*

- *Correspondence Learning via Linearly-invariant Embedding*
  Sapienza University of Rome; hosted by *Prof. E. Rodolà.*   *20/11/2020*

- *Functional template based matching for human bodies.*
  École polytechnique; hosted by *Prof. P. Memari.*   *04/03/2020*

- *Instant recovery of shape from spectrum via latent space connections*
  International Conference on 3D Vision (3DV), 2020   *25/11/2020*

- *FARM: Functional Automatic Registration Method for 3D Human Bodies.*
  Eurographics (EG), 2020   *29/05/2019*

- *POP: full Parametric modelling estimation for Occluded People.*
  The 12th Eurographics Workshop on 3D Object Retrieval (3DOR), 2019   *05/05/2019*

- *Introduction to Spectral Graph Theory: from Fourier to 3D models.*
  University of Verona; hosted by *Prof. G. Menegaz.*   *18,19,20/12/2018*

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*

List of Publications

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, 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.

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 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.

ArXiV

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