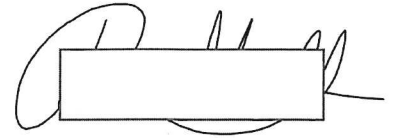
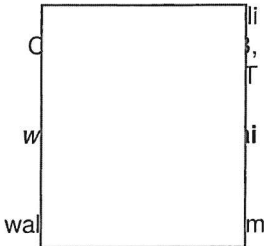


# Walter Riviera

AI Technical LEAD, Ph.D. (candidate)



## Contact Summary



In: walter.riviera

Walter is the AI Technical LEAD at Intel Corporation, where he coordinates and oversees the AI Technical engagements with customers across EMEA (Europe - Middle East and Africa).

### Key aspects (proven record available upon request)

- International experience with multi-millionaire projects
- Can translate business decisions into code, and vice-versa
- Fearless curious attitude in work and life (run own business)

## Experience

04/17 - Now **AI - Technical Lead for EMEA** Intel Corp. - Italy  
Support end-customer and partners in the Datacentre Group, with POCs and technical sales initiatives. Activities covered by the role includes:

- Managing pipeline of 50+ MLN \$ per year on average.
- Consulting and brain storming with customers for development and deployment
- Development, testing and sharing of Best-Known-Methods (BKMs) to simplify the adoption of Intel HW+SW Solutions for AI.
- Delivering training and technical workshops on AI to customers and internal stakeholders.

Tools: *Python, DL, ML, Tensorflow, MKL, mpi, HPC UGE/Slurm, Linux*

## Skills

GenAI ★★★★★  
DL ★★★★★  
Python ★★★★★  
HPC ★★★★★  
Linux-Bash ★★★★★  
SQL/Spark ★★★★★

08/16 - 02/17 **Software Developer** Cereproc, Edinburgh - Scotland  
Tuning of Text-To-Speech applications. Back/front end SW development.  
Tools: *Python, Linux, JavaScript, HTML, SW versioning*

08/15 - 02/16 **Machine Learning Engineer** BizVento, Glasgow - Scotland  
Leverage multiple data sources to build prediction functions for users profiling.  
Tools: *Python, Statistical models and hypothesis testing, clustering*

03/14 - 05/15 **Research fellow in Machine Learning** Kiratech srl, Verona - Italy  
Design of novel data mining techniques to automate the production of training datasets, deployable on robotic platforms.  
Tools: *Matlab, SVMs, DNNs (Caffe), cross validations*

04/13 - 03/14 **Data analyst: project coordinator** Dep. of Biotechnology at UniVR, Verona - Italy  
10/11 - 06/12 Data collection, feedback analysis and report.  
Tools: *Online surveys, Python, Week reports*

## Personal Education

### Languages:



Hobbies: Football, horses, Harmonica

2021 - 2024 **Ph.D. Candidate in Distributed intelligent systems - ongoing** University of Verona, Italy

2012 - 2014 **MSc in Computer Science and Engineering** University of Verona, Italy  
*Thesis in Machine Learning: classifier for personality traits.*  
final grade: **110/110 with honors**

2008 - 2012 **BSc in Multimedia Information Technology** University of Verona, Italy  
*Thesis in Signal processing: speech matching.*  
final grade: **102/110**

## Certificates

03/20	<b>Convolutional Neural Networks</b> <i>Click here to view the certificate</i>	Coursera Certificates
02/20	<b>Structuring Machine Learning Projects</b> <i>Click here to view the certificate</i>	Coursera Certificates
08/18	<b>Improving DNNs: Parameter tuning, Regularization and Optimization</b> <i>Click here to view the certificate</i>	Coursera Certificates
04/18	<b>Neural Networks and Deep Learning</b> <i>Click here to view the certificate</i>	Coursera Certificates
08/16	<b>Distributed Machine Learning with Apache Spark</b> <i>Click here to view the certificate</i>	Berkeley (CA) E-learning

## Achievements

Professional	<b>Integrity and results orientation</b> 2019 3 DRAs: Division Recognition Awards for the leading (on technical side) AI projects in EMEA for a total of 10 MLN \$
	<b>Fearless Champion</b> 2018 1 DRA: Division Recognition Awards for the "Fearless attitude" demonstrated in supporting the AI technical engagements in EMEA
	<b>Business Idea</b> 2015 4 <sup>th</sup> placement in the <i>Start-cup Veneto 2015</i> competition for business idea named "Emocounter": a portable tool for monitoring the white blood cells.
	<b>Robotic-Experience</b> 2013-2014 MSc class project in <b>robotics</b> . The goal was to equip the the <b>KUKA -- Youbot</b> robot with a vision system ( <i>Microsoft Kinect<sup>®</sup></i> ) in order to make the robot able to to detect, recognize and grasp objects in a <b>3D space</b> . <i>Click here to watch the DEMO</i>
Academic	<b>Student Career Award</b> 2014 Selected as Italian student, on the Academic CV basis, for the <i>Mediterranean Days@Campus SophiaTech</i> , organized by the University of Nice-Sophia Antipolis.

## TOP Publications (others available)

- [J1] B. Casella, W. Riviera, M. Aldinucci, and G. Menegaz. "MERGE: A model for multi-input biomedical federated learning". In: *Patterns* (2023), p. 100856.
- [J2] W. Riviera, I. B. Galazzo, and G. Menegaz. "FeLebrities: A User-Centric Assessment of Federated Learning Frameworks". In: *IEEE Access* (2023), pp. 96865–96878.
- [J3] P. Foley, M. J. Sheller, B. Edwards, S. Pati, W. Riviera, M. Sharma, P. N. Moorthy, S.-h. Wang, J. Martin, P. Mirhaji, P. Shah, and S. Bakas. "OpenFL: the open federated learning library". In: IOP Publishing, 2022, p. 214001.
- [B1] A. Vinciarelli, **Riviera, Walter**, F. Dalmaso, S. Raue, and C. Abeyratna. "What Do Prospective Students Want? An Observational Study of Preferences About Subject of Study in Higher Education". In: *Innovations in Big Data Mining and Embedded Knowledge*. Springer International Publishing, 2019, pp. 83–97.
- [C1] G. Mittone, W. Riviera, I. Colonnelli, R. Birke, and M. Aldinucci. "Model-Agnostic Federated Learning". In: *Euro-Par 2023: Parallel Processing - 29th International Conference on Parallel and Distributed Computing, Limassol, Cyprus, August 28 - September 1, 2023, Proceedings*. 2023, pp. 383–396.
- [C2] D. Brayford, S. Vallecorsa, A. Atanasov, F. Baruffa, and **Riviera, Walter**. *Deploying AI Frameworks on Secure HPC Systems with Containers*. 2019. arXiv: 1905.10090.
- [W1] M. Polato, R. Esposito, W. Riviera, Z. Xu, and I. King. "1st Workshop on Federated Learning Technologies". In: *Companion Proceedings of the ACM Web Conference 2023, WWW 2023, Austin, TX, USA, 30 April 2023 - 4 May 2023*. Ed. by Y. Ding, J. Tang, J. F. Sequeda, L. Aroyo, C. Castillo, and G.-J. Houben. 2023, p. 1150.

Autorizzo il trattamento dei miei dati personali ai sensi del Dlgs 196 del 30 giugno 2003 e dell'art. 13 GDPR" che si inserisce al termine del proprio curriculum vitae **Walter Riviera**

