WalterRiviera

AI Technical LEAD, Ph.D. (candidate)

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Summary

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

Languages:

Hobbies: Football, horses, Harmonica

Education

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

Achievements

Professional

Integrity and results orientation 2019
3 *DRAs*: Division Recognition Awards for the leading (on technical side) AI projects in EMEA for a total of 10 MLN $

Fearless Champion 2018
1 *DRA*: Division Recognition Awards for the "Fearless attitude" demonstrated in supporting the AI technical engagements in EMEA

Business Idea 2015
4^{th} placement in the *Start-cup Veneto 2015* competition for business idea named *"Emocounter"*: a portable tool for monitoring the white blood cells.

Robotic-Experience 2013-2014
MSc class project in **robotics**. The goal was to equip the the **KUKA -- Youbot** robot with a vision system (*Microsoft Kinect®*) in order to make the robot able to to detect, recognize and grasp objects in a **3D space.** *Click here to watch the DEMO*

Academic

Student Career Award 2014
Selected as Italian student, on the Academic CV basis, for the *Mediterranean Days@Campus SophiaTech*, 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. Dalmasso, 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*