



Europass Curriculum Vitae

Personal information

Surname/ First name **Russo Tommaso**
Address(es) 46, via Reitano, 00133, Rome, Italy
Telephone(s) +390672595855 Mobile: +393290734943
Fax(es) +390672595965
E-mail Tommaso.Russo@Uniroma2.it
Skype tommaso.russo.x
Nationality Italian
Date of birth 27/11/1976
Gender Male

Work experience

Dates From June 2010 – today
Occupation or position held **Researcher**
Main activities and responsibilities Operative responsible for the analysis of Vessel Monitoring System (VMS) data and computation of Ecosystem Indicators 5-7 within the Italian National Data Collection Program for the Fisheries sector
Name and address of employer "Tor Vergata" University of Rome - snc, via della Ricerca Scientifica, Rome, Italy
Type of business or sector Academic
Dates From May 2011 – today
Occupation or position held **Flag Project RITMARE – WP2 AZ2 - Action Leader (<http://www.ritmare.it/>)**
Main activities and responsibilities Modelling of commercial stocks with particular emphasis to the role of fishing effort by VMS data
Name and address of employer CONISMA (Consorzio Nazionale Interuniversitario per la Scienza del Mare) – 32, via Isonzo, 00198, Rome, Italy / "Tor Vergata" University of Rome - snc, via della Ricerca Scientifica, Rome, Italy
Type of business or sector Academic
Dates From May 2012 – today
Occupation or position held **MAREA Project - tenders MARE/2009/05 - LOT 1 – Mediterranean – Task 4.2 Coordinator (<http://mareaproject.net/contracts/10/overview/>)**
Main activities and responsibilities Development of a statistical spatial approach for the identification of stocks and related boundaries
Name and address of employer CONISMA (Consorzio Nazionale Interuniversitario per la Scienza del Mare) – 32, via Isonzo, 00198, Rome, Italy
Type of business or sector Academic
Dates January 2009
Occupation or position held Data Analyst
Main activities and responsibilities Data Analysis and report production for the project: "Predisposizione dei piani di gestione per la pesca a strascico, per la pesca con rete a circuizione, per la pesca con traino pelagico e per la pesca con altri sistemi diversi dai precedenti, nelle GSA 9 e 11."
Name and address of employer Istituto di Ricerche Economiche per la Pesca e l'Acquacoltura (IREPA) – Trav Migliaro, via S.

Type of business or sector	Leonardo, 84010, Salerno, Italy Services
Dates	From July 2008 to December 2008
Occupation or position held	Post-doc research assistant
Main activities and responsibilities	Data Analysis and report production for the project: ““Sistemi innovativi per la tracciabilità della filiera ittica””.
Name and address of employer	“Tor Vergata” University of Rome - snc, via della Ricerca Scientifica, Rome, Italy
Type of business or sector	Academic
Dates	From August 2007 to June 2008
Occupation or position held	Post-doc research assistant
Main activities and responsibilities	Data Analysis and report production for the project: “Validazione di indicatori morfo-fisiologici della filiera produttiva di spigola (<i>D. labrax</i>) ed orata (<i>S. aurata</i>) per la costruzione di un sistema esperto”.
Name and address of employer	“Tor Vergata” University of Rome - snc, via della Ricerca Scientifica, Rome, Italy
Type of business or sector	Academic
Dates	From February 2007 to July 2007
Occupation or position held	Post-doc research assistant
Main activities and responsibilities	Data Analysis and report production for the project: “Gestione multifunzionale dell’area marina protetta secche di Tor Paterno”.
Name and address of employer	“Tor Vergata” University of Rome - snc, via della Ricerca Scientifica, Rome, Italy
Type of business or sector	Academic
Dates	From May 2006 to August 2006
Occupation or position held	Scientific advisor and project manager
Main activities and responsibilities	Data Analysis and report production for the integrated project: “Linee guida e misure tecnico-gestionali per l’attuazione di Zone di Tutela Biologica da integrare nella politica comune, nazionale, regionale per una pesca sostenibile nel Mediterraneo”.Data Analysis and report production for the project: “Gestione multifunzionale dell’area marina protetta secche di Tor Paterno”.
Name and address of employer	CONISMA (Consorzio Nazionale Interuniversitario per la Scienza del Mare) – 32, via Isonzo, 00198, Rome, Italy
Type of business or sector	Academic
Dates	From May 2006 to November 2006
Occupation or position held	Scientific consultant
Main activities and responsibilities	Final Report production for the project “Linee guida e misure tecnico-gestionali per l’attuazione di Zone di Tutela Biologica da integrare nella politica comune, nazionale, regionale per una pesca sostenibile nel Mediterraneo”
Name and address of employer	CONISMA (Consorzio Nazionale Interuniversitario per la Scienza del Mare) – 32, via Isonzo, 00198, Rome, Italy
Type of business or sector	Academic
Dates	From March 2006 to October 2006
Occupation or position held	Junior Biologist
Main activities and responsibilities	Final Report production for the project “Sviluppo dell’Acquacoltura nella provincia di Sistan – Baluchestan della Repubblica Islamica dell’Iran”
Name and address of employer	C.I.R.S.P.E. (Centro Italiano Ricerche e Studi per la Pesca), 146, Via Torino, 00184 Rome, Italy
Type of business or sector	Research
Dates	From October 2004 to October 2005
Occupation or position held	Scientific assistant and project manager
Main activities and responsibilities	Supervision and coordination for the project “Acquacoltura responsabile di nuove specie ittiche”

Name and address of employer | Consorzio UNIMAR, 146, Via Torino, 00184, Rome, Italy
 Type of business or sector | Research
 Dates | From October 2004 to October 2005
 Occupation or position held | Scientific assistant and project manager
 Main activities and responsibilities | Supervising and coordination for the project “Ripopolamento attivo di lagune, stagni costieri e localizzate fasce dell’area costiera con giovanili certificati di specie ittiche e di crostacei”

Name and address of employer | Consorzio UNIMAR, 146, Via Torino, 00184, Rome, Italy
 Type of business or sector | Research
 Dates | From January 2003 to July 2003
 Occupation or position held | Scientific assistant
 Main activities and responsibilities | Scientific activity within the project “Valorizzazione delle produzioni lagunari attraverso pratiche di etichettatura”

Name and address of employer | AGEI (Agricoltura Gestione Ittica) Scarl, 116, Via Orti della Farnesina, 00194, Rome, Italy
 Type of business or sector | Research

Education and training

Dates | May 2004
 Title of qualification awarded | **PhD degree** in Evolutionary Biology and Ecology.
 Principal subjects/occupational skills covered | Fish Biology, Fish Ontogenesis, Geometric Morphometrics and Shape Analysis, Aquaculture, Data Analysis, Artificial Neural Networks
 Name and type of organisation providing education and training | Department of Biology, “Tor Vergata” University of Rome.

Dates | March 2001
 Title of qualification awarded | **Full degree in Biology** (MSc level).
 Principal subjects/occupational skills covered | Fish Biology, Fish Ontogenesis, Geometric Morphometrics and Shape Analysis, Aquaculture.
 Name and type of organisation providing education and training | Department of Biology, “Tor Vergata” University of Rome.

Dates | June 1995
 Title of qualification awarded | High School Scientific Studies (final marks 60/60)
 Name and type of organisation providing education and training | *Liceo Classico “Cecchia Rispoli”, San Severo (FG).*

Personal skills and competences

Background in ecology, fish and fishery sciences, mathematics and statistics. Advanced experience in data analysis, with particular emphasis on processing of spatial data about fishing activity. Ability in data representation by dedicated software (ArcGis, Grass, etc.)

Mother tongue | Italian

Other languages

Self-assessment

European level (*)

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Advanced level	C2	Advanced level	B1	Intermediate level	B1	Intermediate level	C2	Advanced level
B2	Intermediate level	B2	Intermediate level	B2	Intermediate level	B2	Intermediate level	B2	Intermediate level

(* Common European Framework of Reference for Languages

Social skills and competences	Responsibility, self-respect and self-reliance. Hard working, good fun, organized person. Team player, expressing a fair-play, problem-solving attitude. Good abilities for synthetic and global views over concrete situations. Good ability to live in worldwide locations.
Organisational skills and competences	Ability to plan, organize and realize research projects. Deep understanding of the design process from initial concept to end product . Experience in small research groups (5-10 persons).
Technical skills and competences	Good experience in aquaculture practice. In-depth knowledge of design research software and metadata production from statistical analysis to communication purposes.
Computer skills and competences	Excellent knowledge of Microsoft Windows and Linux (Ubuntu release) Excellent knowledge of ARCGis software, including ARCMAP, ARCCatalog and ARCVIEW. Excellent knowledge of different software and environment for statistical analyses: PAST, STATISTICA, S-Plus, R, Scilab, Matlab and others. Excellent knowledge of software for Shape Analysis (Geometric morphometrics): TPS, IMP, Morpheus, MorphoJ. Advanced competences in software development with Visual Basic, Java and other languages.

Additional information

- ♣ Italian delegate for the Subcommittee Environment and Ecosystem Indicators of FAO
- ♣ Scientific Advisory Committee (SAC) and General Fishery Commission for the Mediterranean (GFCM)
- ♣ Member of the Italian Scientific Board for fisheries
- ♣ From 2011, Italian delegate to the ICES Working Group on Ecosystem Effects of Fishing Workshop on the utility of commercial CPUE and VMS data in assessment (WKCPUEFFORT)
- ♣ From 2010, Italian delegate to the ICES Working Group on Ecosystem Effects of Fishing (WGECO)
- ♣ Involved as reviewer in the peer-reviewing process for the International Journals: ICES Journal of Marine Science, Journal of Fish Biology, and Italian Journal of Zoology, Ecology of Freshwater Fishes, Journal of Advance Research, Aquaculture Nutrition and Aquaculture Research.:

Annexes Scientific Publications (ISI Journals)

1. **Russo T.**, D'Andrea L., Parisi A., Cataudella S. (2014) VMSbase: An R-Package for VMS and Logbook Data Management and Analysis in Fisheries Ecology. PLoS ONE 9(6): e100195. doi:10.1371/journal.pone.0100195
2. Boglione C., Pulcini D., Scardi M., Palamara E., **Russo T.**, Cataudella S. (2014) Skeletal Anomaly Monitoring in Rainbow Trout (*Oncorhynchus mykiss*, Walbaum 1792) Reared under Different Conditions. PLoS ONE 9(5): e96983. doi:10.1371/journal.pone.0096983
3. Scarcella G., Grati F., Raicevich S., **Russo T.**, Gramolini R., Scott R.D., Polidori P., Domenichetti F., Bolognini L., Giovanardi O., Celić I., Sabatini L., Vrgoč N., Isajlović I., Marčeta B., Fabi G. (2014) Common sole in the northern and central Adriatic Sea: Spatial management scenarios to rebuild the stock. **Journal of Sea Research** 89, 12-22.
4. **Russo T.**, Parisi A., Garofalo G., Gristina M., Cataudella S., et al. (2014) SMART: A Spatially Explicit Bio-Economic Model for Assessing and Managing Demersal Fisheries, with an Application to Italian Trawlers in the Strait of Sicily. PLoS ONE 9(1): e86222. doi:10.1371/journal.pone.0086222
5. **Russo T.**, Scardi M., Cataudella S. (2014) Applications of Self-Organizing Maps for Ecomorphological Investigations through Early Ontogeny of Fish. PLoS ONE 9(1): e86646. doi:10.1371/journal.pone.0086646

6. Tancioni L., **Russo T.**, Cataudella S., Milana V., Hett A.K., Corsi E., Rossi A.R. (2013). Testing Species Delimitations in Four Italian Sympatric Leuciscine Fishes in the Tiber River: A Combined Morphological and Molecular Approach. **Plos One** 8(4), 1-10.
7. **Russo T.**, Parisi A., Cataudella S. (2013). Spatial indicators of fishing pressure: Preliminary analyses and possible developments. **Ecological Indicators** 26, 141–153.
8. Pulcini D., Wheeler P.A., Cataudella S., **Russo T.**, Thorgaard G.H. (2013). Domestication shapes morphology in rainbow trout *Oncorhynchus mykiss*. **Journal of Fish Biology** 82, 390 – 407.
9. Pulcini D., **Russo T.**, Reale P., Massa-Gallucci A., Brennan G., Cataudella S. (2012). Rainbow trout (*Oncorhynchus mykiss*, Walbaum 1782) develop a more robust body shape under organic rearing. **Aquaculture Research**, 1-13.
10. **Russo T.**, Pulcini D., Costantini D., Pedreschi D., Palamara E., Boglione C., Cataudella S., Scardi M., Mariani S. (2012). “Right” or “Wrong”? A contribution to the ecology of sidedness in European flounder, *Platichthys flesus* (Linnaeus, 1758). **Journal of Morphology** 273:337–346.
11. **Russo T.**, Parisi A., Prorgi M., Boccoli F., Cignini I., Tordoni M., Cataudella S. (2011). When behaviour reveals activity: inferring fishing métier from VMS data by artificial neural network. **Fisheries Research** 111: 53– 64.
12. **Russo T.**, Parisi A., Cataudella S. (2011). New insights in interpolating fishing tracks from VMS data for different métiers. **Fisheries Research** 108: 184–194.
13. **Russo T.**, Scardi M., Boglione C., Cataudella S. (2010). Application of the Self-Organizing Map to the study of skeletal anomalies in aquaculture: The case of dusky grouper (*Epinephelus marginatus* Lowe, 1834) juveniles reared under different rearing conditions. **Aquaculture** 315: 69-77.
14. **Russo T.**, Prestinicola L., Scardi M., Palamara E., Cataudella S., Boglione C. (2010). Progress in modeling quality in aquaculture: an application of Self-Organizing Map to the study of skeletal anomalies and meristic counts in gilthead seabream (*Sparus aurata*, L. 1758). **Journal of Applied Ichthyology** 26: 360–365.
15. Toscano B., Pulcini D., Hayden B., **Russo T.**, Kelly-Quinn M. & Mariani S. (2010). Ecological interactions among two cyprinid fish and their hybrids in a novel environment. **Biological Journal of the Linnean Society** 99: 768–783.
16. **Russo T.**, Mariani S., Baldi P., Parisi A., Magnifico G. & Cataudella S. (2009). Progress in modelling herring populations: individual-based model of growth. **ICES Journal of Marine Sciences** 66: 1718-1725.
17. **Russo T.**, Baldi P., Parisi A., Magnifico G., Mariani S., & Cataudella S. (2009). Lévy processes and stochastic von Bertalanffy models of growth, with application to fish population analysis. **Journal of Theoretical Biology** 258: 521-529.
18. **Russo T.**, Boglione C., De Marzi P. & Cataudella S. (2009). Feeding preferences of the dusky grouper larvae reared in semi-intensive conditions: a contribution addressing the domestication of this species. **Aquaculture** 289: 289-296.
19. **Russo T.**, Pulcini D., Bruner E. & Cataudella S. (2009). Shape and Size Variation: Growth and Development of the Dusky Grouper (*Epinephelus marginatus* Lowe, 1834). **Journal of Morphology** 270: 83-96.
20. **Russo T.**, Pulcini D., O’Leary Á., Cataudella S. & Mariani S. (2008). Relationship between body shape and trophic niche segregation in two closely related sympatric fishes. **Journal of Fish Biology** 73: 809-828.
21. **Russo T.**, Costa C. & Cataudella S. (2007). Correspondence between shape and feeding habit changes throughout ontogeny of gilthead sea bream *Sparus aurata* L., 1758. **Journal of Fish Biology** 71: 629-656.
22. **Russo T.**, Magnifico G., Baldi P., Cataudella S. (2006). New insight into growth parameters estimation: searching for a better approach in data massaging. **Biologia Marina Mediterranea** 13 (2): 286-287.
23. **Russo T.**, Tancioni L., Ciccotti E., Caprioli R., Conti L., Fusari A., Rampacci M., Cataudella S. (2006). Studio dell’ecologia trofica larvale del Persico reale (*Perca fluviatilis*, L. 1758) in condizioni sperimentali, per la messa a punto di tecniche di allevamento in grandi volumi

basate sull'alimentazione con planctoni di origine selvatica. **Biologia Ambientale**, 20(1) : 189-197.

Personal communications and posters

Russo, T., Scardi, M. & Cataudella, S. (2008) – Exploring body shape development in fish and its relationships with other ecological features by means of Self Organizing Maps. *Personal communication at the "International Conference on Ecological Informatics 6", Cancun, Mexico, December 2- 5.*

Russo, T., Baldi, P., Parisi, A., Mariani, S. & Cataudella, S. (2008) – Progress in modelling herring populations: Individual-based models of growth. *Personal communication at "Herring: Linking biology, ecology and status of populations in the context of changing environments", Galway, Ireland, August 26-29.*

Russo, T., Ciuffa, D., Colombari, P.T., Grygielewicz, M., Scardi, M., Tancioni, L. & Cataudella, S. (2007) – Study of the relationships between environmental parameters and fish assemblages in water courses of Lazio. *Personal communication at the XVII National Congress SITE/ XVIII National Congress AIOL "Ecologia, Limnologia e Oceanografia: quale futuro per l'ambiente?", Ancona, Italy, September 17-20.*

Baldi, P., Russo, T., Parisi, A., Magnifico, G., Romei, J., Mariani, S. & Cataudella S. (2007) – New insight into estimation of growth parameters: An application of EM and PMC algorithms to length data. *Personal communication at the 6th National Congress of the Italian Society of Biometrics, Pisa, Italy, June 22.*

Baldi, P., Russo, T., Parisi, A., Magnifico, G., Mariani, S. & Cataudella S. (2007) – A new stochastic von Bertalanffy model of fish growth, with application to population analysis. *Poster presented at the 6th National Congress of the Italian Society of Biometrics, Pisa, Italy, June 22.*

Magnifico G., Baldi P., Russo T., Scardi M., Tancioni L., Cataudella S. (2006) – Sviluppi teorico/applicativi nella stima dei parametri di accrescimento di popolazioni ittiche. *Personal communication at the 14th National Congresso SITE, Viterbo-Civitavecchia, Italy, September.*

Russo T., Antonacci L., Baldi P., Magnifico G., Cataudella S. (2006) – New insight into growth parameters estimation: application of Expectation/Maximization algorithm to length data. *Personal communication at the 14th National Congress SITE, Viterbo-Civitavecchia, Italy, September.*

Scardi M., Cataudella S., Ciccotti E., Ciuffa D., Colombari P.T., Di Dato P., Gibertini G., Larsen S., Mancini L., Moccia G., Munafò M., Grygielewicz M., Pace G., Russo T., Scalici M., Tancioni L. (2006) – Valutazione dello stato ecologico dei sistemi lotici mediante analisi dei popolamenti ittici ai sensi della direttiva 2000/60CE: una proposta basata sulla ricostruzione del giudizio esperto con tecniche di intelligenza artificiale. *Personal communication at the 11th Congress AIAD, Treviso, Italy, March 31 – April 1.*

Tancioni L., Ciccotti E., Ciuffa D., Colombari P.T., DiDato P., Gibertini G., Grygielewicz M., Larsen S., Mancini L., Moccia G., Munafò M., Pace G., Russo T., Scalici M., Scardi M., Cataudella S. (2006) – Contributo alla carta ittica della provincia di Roma: ricerche preliminari sui sistemi lotici. *Personal communication at the 11th Congress AIAD, Treviso, Italy, March 31 – April 1.*

Russo T., Magnifico G., Scardi M., Sechi V., Tancioni L., Cataudella S. (2006) – Applicazione di tecniche di analisi multivariata per lo studio delle relazioni tra fattori abiotici e struttura dei popolamenti ittici. *Poster presented at the 11th Congress AIAD, Treviso, Italy, March 31 – April 1.*

Viaggi E., Russo T., Bianco I., Cortese M., Zaottini E., Albertano P. (2006) – Modelling Fluctuation Of The Toxic Cyanobacterium *Planktothrix rubescens* In The Lake San Puoto (Central Italy) Using Self-Organizing Maps. *Personal communication at the XVII National Congress AIOL, Naples, Italy, July 3-7.*

Magnifico G., Baldi P., Corsi E., Russo T., Scalici M., Tancioni L., Cataudella S. (2006) – Progress In Length-Frequency Analysis For Growth Parameters Estimation: A New Approach In Data Massaging. *Personal communication at the XVII National Congress AIOL, Naples, Italy, July 3-7.*

Scardi M., Boglione C., Ciccotti E., Costa C., Russo T., Tancioni L., Cataudella S. (2006) – Artificial intelligence applications in aquaculture: case studies and perspectives. AQUA 2006 – *Personal*

communication at the International Convention of European Aquaculture Society – Florence, Italy, May 10-15.

Cataudella S., Boglione C., Crosetti D., Allegrucci G., Russo T., Giganti M., De Marzi P., Spanò A., Costa C., Scardi M. (2006) – Multilevel certification criteria for “wild-like” fin fish juveniles in aquaculture (restocking, sea-ranching and ecological production). AQUA 2006 – *Personal communication at the International Convention of European Aquaculture Society – Florence, Italy, May 10-15.*

Russo T., Costa C., Cataudella S. (2005) – L’analisi della forma nell’ecomorfologia dell’ontogenesi nei teleostei. *Personal communication at the Symposium “Morfogenesi e Sviluppo”, 66° National Congress UZI, Frascati, Rome, Italy, September 25-27.*

Marsili G., Costa C., Russo T., Tancioni L., Cataudella S. (2005) – Ecomorfologia di *Tilapia nilotica* (*Oreochromis niloticus*, Linnaeus 1758) in diverse condizioni di allevamento: l’analisi della forma in 3D. *Poster presented at the Symposium “Morfologia e Ultrastruttura”, 66° National Congress UZI, Frascati, Rome, Italy, September 25-27.*

Tancioni L., Ciccotti E., Boglione C., Rampacci M., De Innocentiis S., Sola L., Giganti M., Russo T., Sessi P., Caprioli R., Conti L., Costa C., Cataudella S. (2004) – Fry production of European perch (*Perca fluviatilis* L., 1758) for responsible restocking: an example of interaction between research and fishermen Association (lake of Bracciano, Italy). 23rd EIFAC Symposium “Aquaculture Development – Partnership between Science and Producer Associations”, Wierzbica, Poland, May 26-29.

Cataudella S., Russo T., Cataldi E., Boglione C., Saroglia M. (2003) – Does the model of semi-intensive larval rearing of Mediterranean finfish contribute to the knowledge on animal welfare in aquaculture? – *Personal communication at the International Aquaculture Conference “Fish farming in Mediterranean Europe: quality for developing markets” (Verona, 15-16 Ottobre 2003) – Book of Abstract p.49.*

Cataudella S., Russo T., Lubrano-Lavadera P., De Marzi P., Spanò A., Fusari, A., Boglione C. (2002) – An ecological approach to produce “wild-like” juveniles of sea bass and sea bream: trophic ecology in semi-intensive hatchery conditions – *Poster presented at the Aquaculture Europe 2002, “Seafarming today and tomorrow” and inserted in the Extended Abstracts and Short Communications p. 177.*

Marino G., Russo T., Longobardi A., Cataudella S. (2001) – Preliminary data on mouth morphometry of reared larvae of dusky grouper *Epinephelus marginatus* – *Poster presented at the World aquaculture Conference 2002, Beijing, China.*

Rome, 28/07/2014

