

PERSONAL INFORMATION

DANIELE ARNOLDI

📍 Trento. cap: 38121 (Italy)

📞 3386225800

✉ daniele.arnoldi@fmach.it

Sex Male | Date of birth 16/10/1978 | Nationality Italian

POSITION

Technologist 4th level

WORK EXPERIENCE

May 2005 – Present

Technologist

Fondazione Edmund Mach; Innovation and Research Center; Applied ecology group (www.fmach.it).

My interest is focused especially on the biology of mosquitoes, small mammals and ticks

- Mosquitoes surveys in the field and laboratory experiments mainly on invasive mosquito species.
- Samplings of small mammals in the field and their handling for biological samples collection (mainly on *Apodemus flavicollis* and *Myodes glareolus*)
- Public meetings on the topic: "Mosquito control measures in private properties". School laboratories at primary school on the same topic (Signora Zanz).
- Ticks collection in the field (mainly *Ixodes ricinus*)
- I take care of the mosquito colonies in the FEM insectarium

April 2007 – September 2008

Guide

Natural Sciences Museum of Trento - Italy

- Guide at the temporary exhibition "La scimmia nuda"

EDUCATION AND TRAINING

Jan 2006 - Mar 2006

English course

Embassy CES, Brighton&Hove (England)

1998 – 2004

Master's Degree in natural sciences

Facoltà di Scienze MM.FF.NN – Università degli studi di Padova (PD – Italy)

- Ecology
- Zoology
- Botany
- Nature conservation
- Geology
- Antropology

Thesis (108/110): Strategie femminili per ridurre l'assillo sessuale. Innate o apprese? (studio sul pesce pecilide *Gambusia Holbrooki*)

1993 – 1998

Certificate of maturity

Liceo scientifico "Leonardo da Vinci"- Trento (Italy)

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Technical skills

- Competent with the monitoring techniques of small mammals (CMR; radiotracking; alive animal manipulation)
- Competent with most of the techniques for mosquitoes survey
- Competent with identification of mosquito and tick specimens

Communication skills

- good communication skills gained through my experience at the museum, during my public meetings or with colleagues
- good ability to connect to other colleagues and work effectively in a team

Organisational / managerial skills

- I can plan autonomously the daily work, alone or in a team.

Computer skills

- Competent with most Microsoft Office programmes, es:
 - Word
 - Power point
 - Excel
- Competent with GPS programs
- Basic use of QGIS

Driving licence

B

Publications

- Roiz, D., Rosà R., **Arnoldi D.** and Rizzoli A. (2010). Effects of temperature and rainfall on the activity and dynamics of host-seeking *Aedes albopictus* females in Northern Italy. *Vector Borne and Zoonotic Diseases*.
- Roiz D., Neteler M., Castellani C., **Arnoldi D.** and Rizzoli A. (2011). Climate factors driving invasion of the tiger mosquito (*Ae. albopictus*) into new areas in Trentino, Northern Italy. *Plos One*
- Roiz D., Vazquez A., Rosà R., Munoz J., **Arnoldi D.**, Rosso F., Figuerola J., Tenorio A., Rizzoli A. (2012). Blood meal analysis, flavivirus screening, and influence of meteorological variables on the dynamics of potential mosquito vectors of West Nile virus in Trentino (Northern Italy). *Journal of Vector Ecology*
- Montarsi F, Drago A, Dal Pont M, Delai N, Carlin S, Cazzin S, Ciocchetta S, **Arnoldi D**, Baldacchino F, Rizzoli A, Russo F, Capelli G. Current knowledge on the distribution and biology of the recently introduced invasive mosquito *Aedes koreicus* (Diptera: Culicidae). *Atti Accademia Nazionale Italiana di Entomologia Anno LXII, 2014: 169-174.*
- Montarsi, F.; Drago, A.; Martini, S.; Calzolari, M.; De Filippo, F.; Bianchi, A.; Mazzucato, M.; Ciocchetta, S.; **Arnoldi, D.**; Baldacchino, F.; Rizzoli, A.; Capelli, G. (2015). Current distribution of the invasive mosquito species, *Aedes koreicus* [*Hulecoeteomyia koreica*] in northern Italy. *PARASITES & VECTORS*
- Marcantonio Matteo, Metz Markus, Baldacchino Frédéric, **Arnoldi Daniele**, Montarsi Fabrizio, Capelli Gioia, Carlin Sara, Neteler Markus, Rizzoli Annapaola, (2016). First assessment of potential distribution and dispersal capacity of the emerging invasive mosquito (*Aedes koreicus*) in Northeast Italy. *Parasites & Vectors*
- F. Baldacchino, M. C. Bruno, P. Visentin, K. Blondel, **D. Arnoldi**, H. C. Hauffe & A. Rizzoli (2017) Predation efficiency of copepods against the new invasive mosquito species *Aedes koreicus* (Diptera: Culicidae) in Italy, *The European Zoological Journal*
- BALDACCHINO, F.; MONTARSI, F.; BARATEGUI, C.; FERRO MILONE, N.; DA ROLD, G.; **ARNOLDI, D.**; CAPELLI, G.; RIZZOLI, A. (2017). A two-year mosquito survey focusing on *Aedes koreicus* in northern Italy and implications for adult trapping. *JOURNAL OF MEDICAL ENTOMOLOGY*.
- Marini, G.; Guzzetta, G.; Baldacchino, F.; Arnoldi, D.; Montarsi, F.; Capelli, G.; Rizzoli, A.; Merler, S.; Rosà, R. (2017). The effect of interspecific competition on the temporal dynamics of *Aedes albopictus* and *Culex pipiens*. *PARASITES & VECTORS*
- Frédéric Baldacchino, Francesca Bussola, **Daniele Arnoldi**, Matteo Marcantonio, Fabrizio Montarsi, Gioia Capelli, Roberto Rosà, Annapaola Rizzoli (2017) An integrated pest control strategy against the Asian tiger mosquito in northern Italy: a case study. *PEST MANAGEMENT SCIENCE*
- Frédéric Baldacchino, **Daniele Arnoldi**, Charlotte Lapere, Roberto Rosà, Fabrizio Montarsi, Gioia Capelli, Annapaola Rizzoli (2017) Weak Larval Competition Between Two Invasive Mosquitoes *Aedes koreicus* and *Aedes albopictus* (Diptera: Culicidae). *JOURNAL OF MEDICAL ENTOMOLOGY*
- Verena Pichler, Romeo Bellini, Rodolfo Veronesi, **Daniele Arnoldi**, Annapaola Rizzoli, Riccardo Paolo Lia, Domenico Otranto, Fabrizio Montarsi, Sara Carlin, Marco Ballardini, Elisa Antognini, Marco Salvemini, Emanuele Brianti, Gabriella Gaglio, Mattia Manica, Pietro Cobre, Paola Serini, Enkelejda Velo, John Vontas, Ilias Kioulos, Joao Pinto, Alessandra della Torre and Beniamino Caputo (2018) First evidence of resistance to pyrethroid insecticides in Italian *Aedes albopictus* populations 26 years after invasion. *PEST MANAGEMENT SCIENCE*
- Mattia Manica, **Daniele Arnoldi**, Luca Delucchi, Roberto Rosà, Annapaola Rizzoli, Stefano Merler, Alessandra Schiavuzzi, Franco Guizzardi, Gioia Capelli, Fabrizio Montarsi, Valeria Lencioni, Fabiana Zandonai, Alessia Fuganti, Fiorenza Tisi, Servizio Urbanistica e Ambiente Comune di Trento (2018) PIANO PER IL CONTROLLO DELLA ZANZARA TIGRE IN PROVINCIA DI TRENTO
- Fausta Rosso, Valentina Tagliapietra, Davide Albanese, Massimo Pindo, Frédéric Baldacchino, **Daniele Arnoldi**, Claudio Donati, Annapaola Rizzoli (2018) Reduced diversity of gut microbiota in two *Aedes* mosquitoes species in areas of recent invasion. *SCIENTIFIC REPORTS*
- Valentina Tagliapietra, **Daniele Arnoldi**, Marco Di Luca, Luciano Toma and Annapaola Rizzoli (2019) .Investigation on potential malaria vectors (*Anopheles* spp.) in the Province of Trento, Italy. *MALARIA JOURNAL*
- Marini, G.; **Arnoldi, D.**; Baldacchino, F.; Capelli, G.; Guzzetta, G.; Merler, S.; Montarsi, F.; Rizzoli, A.; Rosà, R. (2019). First report of the influence of temperature on the bionomics and population dynamics of *Aedes koreicus*, a new invasive alien species in Europe. *PARASITES & VECTORS*
- Rosà, R.; Tagliapietra, V.; Manica, M.; **Arnoldi, D.**; Hauffe, H.C.; Rossi, C.; Rosso, F.; Henttonen, H.; Rizzoli, A. (2019). Changes in host densities and co-feeding pattern efficiently predict tick-borne encephalitis hazard in an endemic focus in northern Italy. *INTERNATIONAL JOURNAL FOR PARASITOLOGY*
- Marini, G.; Manica, M.; **Arnoldi, D.**; Inama, E.; Rosa', R.; Rizzoli, A. (2020). Influence of temperature on the life-cycle dynamics of *Aedes albopictus* population established at temperate latitudes: a laboratory experiment. *INSECTS*

Alfano, N.; Tagliapietra, V.; Rosso, F.; Ziegler, U.; **Arnoldi, D.**; Rizzoli, A. (2020). Tick-borne encephalitis foci in northeast Italy revealed by combined virus detection in ticks, serosurvey on goats and human cases. EMERGING MICROBES & INFECTIONS

Pichler, V.; Mancini, E.; Micocci, M.; Calzetta, M.; **Arnoldi, D.**; Rizzoli, A.; Lencioni, V.; Paoli, F.; Bellini, R.; Veronesi, R.; Martini, S.; Drago, A.; De Liberato, C.; Ermenegildi, A.; Pinto, J.; della Torre, A.; Caputo, B. (2021). A novel allele specific polymerase chain reaction (AS-PCR) assay to detect the V1016G knockdown resistance mutation confirms its widespread presence in *Aedes albopictus* populations from Italy. INSECTS

Marini, G.; **Arnoldi, D.**; Inama, E.; Rizzoli, A. (2022). Diapause characterization in the invasive alien mosquito species *Aedes koreicus*: a laboratory experiment. PARASITES & VECTORS, 15 (1): 315. doi: 10.1186/s13071-022-05376-7 handle: <http://hdl.handle.net/10449/76655>

Montarsi, F.; Rosso, F.; **Arnoldi, D.**; Ravagnan, S.; Marini, G.; Delucchi, L.; Rosa', R.; Rizzoli, A. (2022). First report of the blood-feeding pattern in *Aedes koreicus*, a new invasive species in Europe. SCIENTIFIC REPORTS, 12 (1): 15751. doi: 10.1038/s41598-022-19734-z handle: <http://hdl.handle.net/10449/76795>