

# Curriculum Vitae

Name Aivelo, Tuomas Juha Eero

Address Suvannontie 2 aB 39  
00510 Helsinki  
Finland

Telephone +358408286466  
E-mail [tuomas.aivelo@helsinki.fi](mailto:tuomas.aivelo@helsinki.fi)

Date and place of birth 29.7.1984, Pori, Finland

## Education and training

|  |   |
|--|---|
| Dates  | 01 March 2007 – 18 August 2009  |
| Title of qualification awarded                                 | M.Sc.   |
| Principal subjects / occupational skills covered               | Ecology and evolutionary biology, minors: theoretical philosophy, pedagogical studies, environmental sciences   |
| Name and type of organisation providing education and training | University of Helsinki, Finland and exchange studies in University of Neuchâtel, Switzerland  |
| Dates  | 01 August 2004 - 10 March 2007  |
| Title of qualification awarded                                 | B.Sc.   |
| Principal subjects / occupational skills covered               | Ecology and evolutionary biology, minors: Physiology, molecular and cell biology, theoretical philosophy  |
| Name and type of organisation providing education and training | University of Helsinki, Finland   |
| Dates  | 01 April 2010 –   |
| Title of qualification to be awarded                           | PhD   |
| Principal subjects / occupational skills covered               | Ecology and evolutionary biology; minor: biology education including ecological and parasitological field work in Madagascar, laboratory work (PCR, 454 sequencing), bioinformatics and teaching and supervising students |
| Name and type of organisation providing education and training | Institute of Biotechnology, University of Helsinki, Finland.<br>Supervisors: Jukka Jernvall and Juha Laakkonen.   |

## Language skills

Mother tongue Finnish

### Common European Framework of Reference (CEF) level by self-assessment

| Self-assessment     | Understanding |                  |         |                  | Speaking           |                  |                   |                  | Writing |                  |
|---------------------|---------------|------------------|---------|------------------|--------------------|------------------|-------------------|------------------|---------|------------------|
|                     | Listening     |                  | Reading |                  | Spoken interaction |                  | Spoken production |                  |         |                  |
| English             | C2            | Proficient user  | C1      | Proficient user  | C1                 | Proficient user  | C1                | Proficient user  | C1      | Proficient user  |
| French              | B2            | Independent user | B2      | Independent user | B2                 | Independent user | B2                | Independent user | B2      | Independent user |
| Swedish             | B2            | Independent user | B2      | Independent user | B1                 | Independent user | B1                | Independent user | B1      | Independent user |
| Spanish / Castilian | A2            | Basic User       | B1      | Independent user | A2                 | Basic User       | A2                | Basic User       | A2      | Basic User       |

|          |    |            |    |                  |    |            |    |            |    |            |
|----------|----|------------|----|------------------|----|------------|----|------------|----|------------|
| German   | A1 | Basic User | A1 | Independent user | A1 | Basic User | A1 | Basic User | A1 | Basic User |
| Malagasy | A1 | Basic User | A1 | Independent user | A1 | Basic User | A1 | Basic User | A1 | Basic User |

## Work experience

|                                      |   |
|--------------------------------------|---|
| Dates                                | 01/03/2005 - 31/12/2008   |
| Occupation or position held          | Columnist, Satakunnan kansa   |
| Main activities and responsibilities | Writing columns for weekly supplement of a regional newspaper                                 |
| Dates                                | 01 June 2006 →  |
| Occupation or position held          | Web Site Moderator, Finnish Association for Nature Conservation                               |
| Main activities and responsibilities | Development and maintenance of social website about nature in Finland, part-time job.         |
| Dates                                | 01 October 2006 →   |
| Occupation or position held          | Freelance guide, Korkeasaari Zoo  |
| Main activities and responsibilities | Guiding and planning tours for different kinds of visitor groups, assisting in special events |
| Dates                                | 01 July 2007 - 31 August 2007   |
| Occupation or position held          | Research trainee, Finnish Environment Institute   |
| Dates                                | 2008, 2009, 2014  |
| Occupation or position held          | Teacher, the basic course in Zoology, University of Helsinki                                  |
| Dates                                | 01 January 2010 – December 2013   |
| Occupation or position held          | Coordinator, Finnish participation in International Biology Olympiad                          |
| Dates                                | 07 January 2010 – 31 July 2011  |
| Occupation or position held          | Teacher, Helsingin suomalainen yhteiskoulu, the IB Diploma Programme                          |
| Dates                                | 01 January 2014 –   |
| Occupation or position held          | Blogger, Tiede magazine, Sanoma Magazine Finland  |

## Experience in Associations and Committees

|                             |   |
|-----------------------------|---|
| Occupation or position held | Chair of the Board  |
| Name of organization        | Biology Students' Association in University of Helsinki               |
| Dates                       | 1 January 2006 – 31 December 2008                                     |
| Occupation or position held | Member  |
| Name of organization        | Faculty council of the Faculty of Biosciences, University of Helsinki |
| Dates                       | 1 January 2007 – 31 May 2009  |
| Occupation or position held | Member  |
| Name of organization        | Collegium of University of Helsinki                                   |
| Dates                       | 1 January 2007 – 31 December 2009                                     |
| Occupation or position held | Member  |
| Name of organization        | Board of the Neuroscience Center, University of Helsinki              |
| Dates                       | 1 June 2011-February 2014   |
| Occupation or position held | Member  |

|                             |  |
|-----------------------------|--|
| Name of organization        | Viikki Ethical committee on Research, UH   |
| Dates                       | 1 June 2011- December 2013   |
| Occupation or position held | Associate member   |
| Name of organization        | The Committee preparing National Curriculum for Biology in Comprehensive Schooling |
| Dates                       | 1 June 2013-   |
| Occupation or position held | Member   |
| Name of organization        | Board of Doctoral School of Environmental, Alimentary and Biological Sciences, UH  |
| Dates                       | 1 March 2014-  |

### Scientific presentations

|   |   |
|---|---|
| Finnish Biology and Geography Teachers Spring Meeting, 2013 | <i>Plenary:</i> Intestinal parasites of mouse lemurs – cuteness and metagenomics  |
| ESEB 2013, Lissabon, Portugal                               | <i>Poster:</i> Longitudinal study of intestinal nematode parasite dynamics in free-ranging brown mouse lemurs ( <i>Microcebus rufus</i> ) |
| NFSUN2014, Helsinki, Finland                                | <i>Talk:</i> Perceptions of genetics in Finnish Upper Secondary School Students   |

### Additional teaching experience, supervising and mentoring

|             |   |
|-------------|---|
| Supervision | <i>Independent study projects:</i> Hannah Price, 2012. Anisha Narayan, Kendell Harris, Kelsey DeZalia, 2013 |
| Assessment  | The Finnish Contest for Young Scientists (Tutki-Kokeile-Kehitä), 2014                                       |

### Peer-reviewed articles

|   |   |
|---|---|
| Medlar, A., Aivelo, T. & Löytynoja (accepted) | <i>Seance: reference-based phylogenetic analysis for 18S rRNA studies. BMC Evolutionary Biology</i>       |
| Aivelo, T. & Uitto, A. (accepted)             | Genetic determinism in the Finnish upper secondary school biology textbooks. LUMAT                        |
| Aivelo, T. & Uitto, A. 2014.                  | Geenimallit lukion oppikirjoissa ja lukiolaisten käsityksiä geenien toiminnasta. <i>Natura</i> (2),31-35. |

### Non-peer review articles and publications (incl. popular publications, textbooks and technical reports)

|  |   |
|--|---|
| Aivelo, T. Kaarisalo, M., Mattila, L. & Tarkiainen, K. 2014. eOppi Oy. | Lukion eBiologia – Symbioosi 4: Ihmisen Biologia.   |
| Aivelo T., Mutanen, J. & Rostila, A. 2014. eOppi Oy.                   | Lukion eBiologia – Symbioosi 4: Bioteknologia.  |
| Suomen luonto 5/2011   | Kuningatar ja yhden illan prinssit  |
| Yliopisto 6/2010   | Mitalitoivomme olympialaisissa  |
| FERN 2010  | Forest bioenergy and biodiversity in the EU – The threats, the possibilities and the challenges |
| Suomen luonto 2/2009   | Pirstaloituva paratiisi   |
| Yliopisto 2/2009   | Madagaskar – ihme maa   |

niin&näin 4/2009 | Book review: Ihmistieteen holvikolmioita etsimässä

## Grants and awards

|      |   |
|------|---|
| 2010 | HY:n tiedesäätiön nuoren tutkijan apuraha, 21 000 € |
| 2010 | Suoma Loimaranta-Airila Fund, 18 000 €              |
| 2012 | Oskar Öflunds stiftelse, 3 000 €                    |
| 2012 | Suoma Loimaranta-Airila Fund, 18 000€               |
| 2012 | Otto A. Malm Fund, 2 000 €                          |

## IT skills

|                                 |   |
|---------------------------------|---|
| Computer skills and competences | Good command of Microsoft Office tools (Word, Excel, Powerpoint) and statistical tools SPSS and R.<br>Basic knowledge of graphic desing applications (Adobe Photoshop and InDesign) and bioinformatics tools<br>Some knowlegde of Webdesign and GIS software (ARCGis, QGIS) |
|---------------------------------|---|