CV as per
July 31, 2024

Andriy ZAVADA

General

Born	4 November, 1973 in Kharkov, USSR (now Ukraine)
Languages	English, Ukrainian, Russian; functional French and Dutch
Kids	2012, 2014
Home	Ukraine (Kyiv; since 2022, middle of beautiful nowhere in Zakarpattia)
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Degrees and Qualifications

2007	**PhD** in in *Physiology* from the University of Groningen, The Netherlands. Dissertation Title: Defining and determining the properties of the human sleep homeostat. Supervisor & promotor: Domien G. M. Beersma.
1997	**Masters** in *Entomology* from Kharkov State University, Ukraine.

Affiliations/Employers

February 2021–*present*	**TI Tokyo**, remotely from Ukraine: **Software Engineer (Erlang, Elixir)**
January 2018–February 2021	**Pypestream Inc**, remotely from Ukraine: **Software Engineer (Erlang, Elixir)**
May 2017–January 2018	**Id3as LLC**, remotely from Ukraine: **Software Engineer (Erlang, JS, Elm)**
December 2014–April 2017	(on contract) **Basho Inc**, remotely from Ukraine, Georgia, briefly UK: **Software Engineer (Erlang)**
November 2013–December 2014	**Massive Solutions**, Ukraine: **Software Engineer (Python)**
June–October 2013	**Clove Consulting Inc.**, USA/Ukraine: **Software Engineer (C++)**
December 2012–May 2013	**eMICT/Lotosoft**, Ukraine: **Software Engineer (C++)**
July 2012–December 2012	**StrikeAd**, Ukraine: **Software Engineer (Erlang)**
June 2010–May 2012	**Massive Solutions**, Ukraine: **Software Engineer (Erlang)**
2008–10	University of Sussex, UK: **Postdoctoral Research Fellow, modelling neuronal networks**
2002–6	University of Groningen, The Netherlands: **PhD student, Human sleep models**

Affiliations/Employers (continued)

1998–9	Schmalhausen Institute of Zoology, Kiev, Ukraine: **aborted Cand. Sci. in entomology**

Skills

Researcher

- Human sleep research laboratory work: mounting EEG electrodes, recording and scoring EEG.
- Radioimmunoassay analysis; qualified to work with radioactive materials.
- General entomology (with expertise in Hymenoptera: Torymidae): field collecting, museum work.

Programmer

- C and C++: omp; gsl, boost, MPI.
- Emacs, LaTeX, Octave, Gnuplot, Maxima, R; GIMP, Inkscape, Scribus.
- Packaging (Debian).
- Functional JavaScript, HTML, MySQL, some PHP.

Projects

- Munich ChronoType Questionnaire (the online version).
- **Aghermann**, a sleep-research experiment manager, with a facility for reading, displaying, and scoring EEG recordings in EDF format; power spectra analysis and visualization; and Process S simulation following Achermann et al, 1993. I am also packaging and maintaining it for Debian.
- **CNrun**, a neuronal network simulator using NML for network description. Provides conductance- and rate-based Hodgkin–Huxley neuron models, and a number of other neurons & synapses. A 5-6-order RK method is used for integration. Very precise but slow; basic scripting capabilities. Packaged for Debian by me.

Memberships

2006–*by now virtually expired*	Sleep Research Society of The Nederlands.

Participation in conferences

June 2003	Oral presentation *A survey of chronotypes using the Munich ChronoType Questionnaire in The Netherlands* at the **2nd meeting of the BrainTime project** (Hanover, Germany).
October 2004	Poster presentation *Sleeping habits and circadian preference as revealed by the Munich Chronotype Questionnaire and Horne-Östberg Morningness-Eveningness Questionnaire* at the **17th ESRS conference** (Prague, Czech Republic).
September 2005	Oral presentation *Characteristics of sleep in early and late chronotypes* at the **4th meeting of the BrainTime project** (Rotterdam, The Netherlands).
April 2006	Oral presentation *Finding sleep debt* at the **BCN Retreat** (Doorwerth, The Netherlands).
June 2008	Poster presentation *Slow-wave activity self-dissipation efficiency estimates suggest sleep homeostasis restricted to frontal cortex* at the **SLEEP 2008 22nd Annual Meeting of the Associated Professional Sleep Societies, LLC** (Baltimore, Maryland, USA).

Participation in conferences (continued)

February 2009	Poster presentation *A neuronal network model for the detection of binary odour mixtures* at **COSYNE Conference** (Salt-Lake City, USA).
March 2009	Oral presentation *Defining and determining the properties of the human sleep homeostat* at the **Center for Sleep and Consciousness, University of Wisconsin – Madison**.

Invited talks

March 2009	*Defining and determining the properties of the human sleep homeostat* at the **Center for Sleep and Consciousness, University of Wisconsin – Madison**.

Collaborations

2000	CABI, Delémont, Switzerland: A project on biological control of Sulphur Cinquefoil.
2003–6	Chronobiology Group, University of Groningen, The Netherlands: Projects BRAINTIME (EC FP5) and EUCLOCK (EC FP6).
2003	The Natural History Museum, London, UK: revision of world material of *Ecdamua* Walker (Torymidae).

Other academic activities

2005–present	Refereed articles for *Sleep Medicine, Brazilian Journal of Medical & Biological Research, Entomological Problems.*

Publications

10 publications in peer-reviewed journals

2011	ZAVADA A, BUCKLEY CL, MARTINEZ D, ROSPARS J-P, NOWOTNY T. Competition-based model of pheromone component ratio detection in the moth. *PLoS ONE* **6**(2):e16308. doi:10.1371/journal.pone.0016308.
2009	ZAVADA A, STRIJKSTRA AM, BOEREMA AS, DAAN S, BEERSMA DG. Evidence for differential human slow-wave activity regulation across the brain. *Journal of Sleep Research* **18**(1):1-2.
2007	ZAVADA A, BEERSMA DGM, GORDIJN MCM, DAAN S. A method to determine the true homeostatic components of sleep regulation in humans. In: *Sleep-Wake Research in the Netherlands* Vol. 17, Ruigt GSF, van Bemmel AL, de Boer T, van Kasteel V & van Luijtelaar G (Eds.), NSWO, Leiden, The Netherlands, pp 133-5.
	ZAVADA A. Notes on Ecdamua nambui (Hymenoptera: Torymidae), with a key to world Ecdamua species. *Phegea,* **33**(4):155-60.
2005	ZAVADA A, BEERSMA DGM, GORDIJN MCM, DAAN S, ROENNEBERG T. Comparison of the Munich Chronotype Questionnaire with the Horne-Östberg's morningness-eveningness score. *Chronobiology International,* **22**:267-78.
	ZAVADA A, GORDIJN MCM, BEERSMA DGM, DAAN S. Human chronotypes. *BCN Annual report 2002-2003,* pp 115-8.
2004	ZAVADA A, BEERSMA DGM, GORDIJN MCM, DAAN S, ROENNEBERG T. Sleeping habits and morningness-eveningness preference in a Dutch population. In: *Sleep-Wake Research in the Netherlands* Vol. 15, NSWO, Leiden, The Netherlands, pp 117-8.

Publications (continued)

2003   ZAVADA A. Definition of subgenera and a reassessment of species groups of Torymus Dalman (Hymenoptera: Torymidae), based on Palaearctic material. *Phegea,* **31**(3):91-120.

ZAVADA A. New species of Torymus (Hymenoptera: Torymidae) from Central Asia and Caucasus. *Phegea,* **29**(3):99-107.

2001   ZAVADA A. New Palearctic species of Torymus (Hymenoptera, Torymidae). *Entomological Problems,* **32**(1):85-90.

References

Prof. Domien G. M. Beersma, PhD supervisor

Dr. Arjen M. Strijkstra, Collaborator

Dr. Vlad Viazovsky, good old friend

Dr. Thomas Nowotny, Group leader