

## Curriculum Vitae

# Eckhart Arnold

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### Personal details

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Birthday: 11.11.1972 in Hannover (Germany)  
Citizenship: German

Current Occupation: Head of the IT / Digital Humanities Department  
of the Bavarian Academy of Sciences

Qualification: PhD (Philosophy), M.A. (Political Sciences)

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### Expertise

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Research: *Philosophy of Science*  
research focus: Computer simulations

*Political Philosophy*  
research focus: Political Philosophy of the 20<sup>th</sup>  
century

*Digital Humanities (DH)*  
DH-infrastructures, DH-programming

Teaching: in addition to the areas mentioned above:  
*History and classical texts of philosophy*  
*Decision- and elementary Game Theory*  
*Applied ethics*

## Academic and professional background

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- since September 2014 *Head of the IT / Digital Humanities Department of the Bavarian Academy of Sciences and Coordinator the “Network Digital Humanities Munich” ([dhmuc.hypotheses.org](http://dhmuc.hypotheses.org))*
- April-August 2014 *Software Developer and Digital Humanities Specialist at the Bavarian Academy of Sciences*
- Summer 2013 *Replacement Professorship for Theoretical Philosophy at the Heinrich-Heine University of Düsseldorf*
- 2012 - Spring 2014 *Lecturer at the Centre for Science and Culture of the University of Applied Sciences in Coburg (on leave for the summer term 2013)*
- 2009 - 2012 *Post-Doc at the Simulation-Technology Cluster of Excellence (SimTech) of the University of Stuttgart*
- 2007 - 2009 *Research Assistant in the Philosophy & Economics study course of the University of Bayreuth*
- 2004 - 2007 *Research Assistant and PhD student at the Chair for Theoretical Philosophy (Prof. Gerhard Schurz) at the University of Düsseldorf, PhD thesis: „Explaining Altruism. A Simulation-Based Approach and its Limits“*
- 2001 - 2003 *Research Assistant at the Willy Brandt School of Public Policy of the University of Erfurt as part of a research project on the „development of multimedia teaching methods for public policy“*

1993 - 2000                      Student of Political Science, Public Law and  
Philosophy at the University of Bonn, M.A. thesis  
about Eric Voegelin's philosophy of consciousness

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### **Skills**

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Education:                      *PhD* in Philosophy (2007)  
*Master of Arts* in Political Science (2000)  
*University studies*  
                                        Political Science, Philosophy, Public Law

Practical experience:        *Team leadership* (2 ½ years) as head of digital  
                                        humanities department  
*Teaching experience* (10+ years; courses in German as  
                                        well as English language)  
*Teamwork and interdisciplinary collaboration*

Computer Literacy:         *Programming*  
                                        Python, HTML/CSS/JS, SQL, Java, C/C++  
*Application Software*  
                                        LaTeX, Office, CMS (Wordpress, Typo 3)  
*Operating Systems* Linux, Windows, MacOS

Foreign Languages:         *English* (fluent, written and oral)  
                                        *French* (basic knowledge)  
*Latin*

## Publications

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### Books

Eckhart Arnold / Juan Duran (eds.): Computer Simulations and the Changing Face of Scientific Experimentation, Newcastle 2013.

Eckhart Arnold: Explaining Altruism. A Simulation-Based Approach and its Limits, Heusenstamm 2008.

Eckhart Arnold: Religiöses Bewusstsein und Politische Ordnung. Eine Kritik von Eric Voegelins Bewusstseinsphilosophie, München 2007.

Eckhart Arnold (ed.): Hans Kelsen: A New Science of Politics? Hans Kelsen's Reply to Eric Voegelin's „New Science of Politics“, Heusenstamm 2004; *spanish edition*: ¿Una nueva ciencia de la política? Réplica a Eric Voegelin, Buenos Aires 2006.

### Scientific Papers (peer reviewed)

*Wie permanent sind Permalinks?*

in: Informationspraxis 2017, Vol. 3, No 1,

DOI: <http://dx.doi.org/10.11588/ip.2016.2.33483>

*How models fail. A critical look at the history of computer simulations of the Evolution of Cooperation*, in: Proceedings of the Collective Agency and Cooperation in Natural and Artificial Systems Conference, Philosophical Studies Series, Springer 2015, pp. 261-279.

*What's wrong with Social Simulations?*

in: The Monist 2014, Vol. 97, No. 3, pp. 361-379.

*Simulation Models of the Evolution of Cooperation as Proofs of Logical Possibilities. How Useful Are They?*

in: Ethics & Politics, XV (December 2013), pp. 101-138,

URL: [www2.units.it/etica/2013\\_2/ARNOLD.pdf](http://www2.units.it/etica/2013_2/ARNOLD.pdf)

*Can the Best-Alternative Justification solve Hume's Problem?*  
in: *Philosophy of Science*, 77 (Oktober 2010), pp. 584-593.

### **Scientific Papers (non peer reviewed articles)**

*Die Fallstricke einer intentionalistischen Engführung der Geschichtsdeutung.*  
*Kommentar zu einem Artikel von Doris Gerber,*  
in: *Erwägen Wissen Ethik* 4/2015, S. 60-65.

*Nachhaltigkeit und interdisziplinärer Diskurs am Beispiel des Klimawandels,*  
in: Carmen Schier / Elke Schwinger: *Interdisziplinarität in der Hochschullehre und -forschung*, Bielefeld 2014.

*Bedarf die Politik einer spirituellen Grundlage? Kelsens Kritik an Eric Voegelins autoritärer politischer Theologie,*  
in: Clemens Jabloner / Thomeas Olechowski / Klaus Zeleny (Ed.):  
*Secular Religion. Rezeption und Kritik von Hans Kelsens Auseinandersetzung mit Religion und Wissenschaft*, Wien 2013.

*Wissenschaft ohne Wahrheit und Erkenntnis. Das Problem epistemischer Verantwortung am Beispiel empirieferner Computersimulationen,*  
in: Rafaela Hillerbrand / Florian Steeger (Hrsg.): *Praxisfelder angewandter Ethik: Medizin, Technik, Umwelt*, Paderborn 2013.

*Potential und Grenzen einer evolutionären Ethik,*  
in: *Erwägung Wissen Ethik*, Vol. 21 / 2010 Issue 2 (January 2011).

*Neuheit in evolutionären Algorithmen,*  
in: Birger P. Priddat / Peter Seele (Ed.): *Neuheit in Ökonomie und Management. Grundlagen, Methoden, Beispiele*, Wiesbaden 2008.

*Eric Voegelin als Schüler Hans Kelsens,*  
in: Robert Walter, Clemens Jabloner, Klaus Zeleny (Ed.): *Der Kreis um Hans Kelsen. Die Anfangsjahre der Reinen Rechtslehre*, Vienna 2007.

*Moral Judgements of Foreign Cultures and Bygone Epochs. A Two-Tier Approach,* in: Christian Kantian / Edmund Rungaldier (Eds.): *Cultures*.

Conflict-Analysis-Dialog. Proceedings of the 29th International Wittgenstein Symposium in Kirchberg, Austria 2006, ontos-Verlag Frankfurt 2007, pp. 343-352.

*Eine unvollendete Aufgabe. Die politische Philosophie von Kants Friedensschrift*, in: Nebil Reyhani (Ed.): Immanuel Kant. Essays Presented at the Muğla International Kant Symposium, Ankara 2006, pp. 496-512.

*Mehr als nur Analogien? Zur Beziehung von biologischer und kultureller Evolution*, in: Erwägen Wissen Ethik, Jg. 16 / 2005, Heft 3, pp. 372-374.

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## Reviewer

### Referee for journal submissions

Synthese. An International Journal for Epistemology, Methodology and Philosophy of Science, Springer, [link.springer.com/journal/11229](http://link.springer.com/journal/11229)

Philosophy of the Social Sciences, Sage Journals, [pos.sagepub.com/](http://pos.sagepub.com/)

Evolution of Human Behaviour, Elsevier, [www.ehbonline.org/](http://www.ehbonline.org/)

### Referee for research grant applications

Swiss National Science foundation, for Digital Humanities

## Scientific Software Development

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*DHParser* – Research Software for the construction and study of domain specific languages in the Digital Humanities, i.e. for Editions, Dictionaries etc.  
Work in progress, since 2016.

*Programming language:* Python

*URL:* [gitlab.lrz.de/badw-it/DHParser](https://gitlab.lrz.de/badw-it/DHParser)

*Fränkisches Wörterbuch* – Digital Humanities Edition of the Dictionary of Frankonian Dialect and Research Database. The “Fränkisches Wörterbuch” is an ongoing research project since the early 20<sup>th</sup> century. The Digital Humanities Edition is developed by the Bavarian Academy of Sciences. (April 2014 – January 2015. Since January 2015 the development is continued by Manuel Raaf.)

*Programming languages:* HTML, Java Script, Python, SQL

*Frameworks:* web2py, jQuery, PostgreSQL

*HUME 2.0* – A simulation-software for modeling the emergence of division of labor and practical norms, loosely related to ideas from David Hume (hence the name “Hume 2.0”). The software was developed as part of the EMIL (emergence in the loop) project at the University of Bayreuth in 2008.

*Programming language:* Java

*Frameworks:* Java SE and SWING

*CoopSim* – A simulation package and user interface for simulating the reiterated prisoner's dilemma. The simulation model itself is that described in Robert Axelrod's *Evolution of Cooperation* with some additional extensions. The package has been used both for research and teaching. Developed in Düsseldorf 2004. Further extended in Bayreuth and Stuttgart 2007-2009.

*Programming language:* Python

*Frameworks:* wxWidgets, numpy

*URL:* [github.com/jecki/CoopSim/](https://github.com/jecki/CoopSim/)

*MetaInductionSim* – Simulation package for the study of meta-inductivist strategies as a possible answer (proposed by Gerhard Schurz) to the philosophical problem of induction. Developed in collaboration with Gerhard Schurz, Düsseldorf 2004-2007.

*Programming language:* Python

*Frameworks:* wxWidgets

*URL:* [github.com/jecki/MetaInductionSim/](https://github.com/jecki/MetaInductionSim/)

## Organized Conferences and Summerschools

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Workshop „Digitale Editionen und Auszeichnungssprachen“ (Digital Editions and Markup-Languages, organized in collaboration with Mark Sven Hengerer and Julian Schulz), Munich, November 21st/22nd 2016,  
URL: [dhmuc.hypotheses.org/workshop-digitale-editionen-und-auszeichnungssprachen](http://dhmuc.hypotheses.org/workshop-digitale-editionen-und-auszeichnungssprachen)

2. Münchner Digital-Humanities-Summerschool (in collaboration with Georg Hohmann and Christian Riepl), July, 25th - 29th 2016,  
URL: [dhmuc.hypotheses.org/summerschool-2016](http://dhmuc.hypotheses.org/summerschool-2016)

Workshop „Digitale Daten in den Geisteswissenschaften. Interdisziplinäre Perspektiven für semantische und strukturelle Analysen“ (Digital Data in the Humanities, organized in collaboration with Mark Sven Hengerer), Munich, January, 28th/29th 2016,  
URL: [dhmuc.hypotheses.org/workshop-digitale-daten](http://dhmuc.hypotheses.org/workshop-digitale-daten)

Workshop „Fachzeitschriften im digitalen Zeitalter“ (Scientific Journals in the digital age, organized in collaboration with Johannes Gleixner), Munich, November, 30<sup>th</sup> 2015,  
URL: [dhmuc.hypotheses.org/2015\\_fachzeitschriften-im-digitalen-zeitalter](http://dhmuc.hypotheses.org/2015_fachzeitschriften-im-digitalen-zeitalter)

Munich Summerschool “Introduction into the Digital Humanities”, July 27-31, 2015, URL [dhmuc.hypotheses.org/summerschool\\_2015](http://dhmuc.hypotheses.org/summerschool_2015)

Conference “Offene Lizenzen in den Digitalen Geisteswissenschaften” (Open Licences in the Digital Humanities), Munich, April 27-28, 2015,  
URL [dhmuc.hypotheses.org/tagung\\_2015\\_offene\\_lizenzen](http://dhmuc.hypotheses.org/tagung_2015_offene_lizenzen)

Conference „Computer Simulations and the Changing Face of Scientific Experimentation“, Stuttgart, September 21-23, 2011.

## Teaching Experience

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### **Munich Digital-Humanities-Sommerschools 2015, 2016**

July, 25th - 29th and July, 27th - 31st 2015:

Introduction into Digital Humanities

HTML/CSS - Programming

### **Spring School of the “Studienstiftung” in Annecy (France)**

March, 14th - 21st 2016: Seminar: The role of simulations in neuroscience (*in collaboration with Philipp Berens und Ralf Häfner*)

### **Humboldt University Berlin**

ST 2014: Seminar: Aging worldwide. Cultural Constructions and Philosophical Interpretation of ageing (*interdisciplinary M.A. course in collaboration with Heike Schimkat, Ethnology*)

### **University of Applied Sciences Coburg**

WT 2013/14: Seminar and tutorial: Sustainability (*interdisciplinary co-teaching in collaboration with Prof. Friedemann Zeidler, construction engineering*)

Seminar and tutorial: Lifeworld, Worklife and the Experience of Time) (*interdisciplinary co-teaching in collaboration with Yasmin Schunk, Practical Health Research*)

Seminar and tutorial: Earning money with the demographic change (*interdisciplinary co-teaching in collaboration with Mirko Kraft, Insurance Industry*)

Lecture: Decision theory

Lecture: Philosophy of science

### **Heinrich-Heine University of Düsseldorf**

ST 2013: Seminar: Computer simulations as a methodology

Seminar: Scientific knowledge and its public reception

Lecture and tutorial: Logic I: Introduction to classical logic

Introductory course: Programming computer simulations with netLogo

### **University of Applied Sciences Coburg**

WT 2012/13: Seminar and tutorial: Altern weltweit: Kulturelle

Konstruktionen und philosophische Deutungen des Alters  
(*interdisciplinary co-teaching in collaboration with Heike Schimkat, Ethnology*)

Seminar and tutorial: Polnische Krankenpfleger und indische Informatiker – Ist die Zuwanderung von Fachkräften die Lösung der demographischen Herausforderung? (*interdisciplinary co-teaching in collaboration with Isabell Klingert, Political Sciences*)

Seminar and tutorial: Der demographische Wandel und die Vielfalt in der Gesellschaft (*interdisciplinary co-teaching in collaboration with Irina Kobrin, social work*)

### **University of Stuttgart**

WT 2011/12: Seminar: Wissenschaftliche Erkenntnis und ihre öffentliche Rezeption

ST 2011: Seminar: Der Lebenssinn in der Industriegesellschaft

WT 2010/11: Seminar: Wissenschaft und Ethik (Science and Ethics)  
Tutorial: Einführung in die C++ Programmiersprache

ST 2010: Seminar: Foundations of the Philosophy of Science (*english language course in collaboration with Marianne Richter*)

WT 2009/10: Seminar: What is Probability? (*english language course*)

### **Summer School of the “Studienstiftung” in St. Johann (Südtirol)**

August, 29<sup>th</sup> – September, 11<sup>th</sup> 2010: course: Philosophische Interpretationen der Wahrscheinlichkeitsrechnung (in collaboration with Rafaela Hillerbrand)

### **University of Bayreuth**

ST 2009: Lecture: Grundlagen des Entscheidens I  
([eckhartarnold.de/papers/2009\\_Vorlesung\\_Entscheidungstheorie.pdf](http://eckhartarnold.de/papers/2009_Vorlesung_Entscheidungstheorie.pdf))

WT 2008/09: Seminar: Philosophischer Pessimismus: Schopenhauer und Nietzsche

ST 2008: Lecture: Grundlagen des Entscheidens I  
Seminar: Politische Theologie von Carl Schmitt bis Osama bin Laden

WT 2007/08: Seminar: Evolution von Kooperation und Altruismus

### **University of Duisburg-Essen**

ST 2007: Seminar: Modelle der Moralwissenschaften II. Strategische Modelle der Moralwissenschaften: Spieltheorie

WT 2006/07: Seminar: Modelle der Moralwissenschaften I. Nicht-strategische Modelle der Moralwissenschaften: Entscheidungstheorie

### **University of Porto (Portugal)**

ST 2006: Blockseminar: Husserl's Phenomenology as a Philosophy of Mind (*english language*)

### **University of Düsseldorf**

ST 2007: Seminar: Dichter als Philosophen (Voltaire, Dostojewski, Thomas Mann, Marcel Proust, Philip Roth)

WT 2006/07: Seminar: Edmund Husserl's „Krisis der europäischen Wissenschaften“

ST 2006: Seminar: Kritiker der Einheitswissenschaft: Feyerabend, Dupré, Cartwright

WT 2005/06: Seminar: Wissenschaftstheorie der Gesellschaftswissenschaften

ST 2005: Seminar: Karl Poppers „Logik der Forschung“

WT 2004/05: Seminar: Platons Staat und seine Kritiker

ST 2004: Seminar: Die Evolution der Kooperation

### **University of Erfurt**

WT 2002/03: Lecture: Elementary Mathematics for Public Policy Analysis (*english language*)