

# Yuri Engelhardt

# Curriculum Vitae

<http://bit.ly/YuriEngelhardt> (Linkedin)

<http://bit.ly/YuriPortfolio> (Behance)

<http://bit.ly/YuriTwitter> (Twitter)

[yuri.engelhardt@gmail.com](mailto:yuri.engelhardt@gmail.com)

## *Passions:*

I am passionate about using **data visualization, information design** and **digital media** in the **public interest** – especially in areas such as education, health, poverty reduction, sustainability, transparency, accountability, data journalism, and citizen engagement. And I **love teaching**.

## *Core expertise:*

**Information visualization, data graphics, interaction design, digital media, visual analytics.** Understanding the ‘design space’ and the ‘building blocks’ of interactive data visualizations and the ways in which these can be combined to **design useful, attractive visualizations**.

## *Current position:*

I hold a tenured academic position as an assistant professor in **Information Visualization and Digital Media** at the Faculty of Humanities of the University of Amsterdam (since 2003), and I am a lecturer in **Information Graphics** for the graduate program in Editorial Design at the Utrecht Graduate School of Visual Art and Design (since 2006).

## *Research:*

I have been doing research in **visual language, infographics, data analytics** and **interactive media** for **almost twenty years**. My work is quoted by the ‘fathers’ of the field of interactive information visualization, such as Colin Ware, Stuart Card, Jock Mackinlay, and Ben Shneiderman, in their books that have become the classic texts of this field.

## *References – many people will be happy to warmly recommend me, for example:*

- **Alberto Cairo**, author of several books, including “The Functional Art: An Introduction to Information Graphics and Visualization” (<http://TheFunctionalArt.com>)
- **Clive Richards**, President of the International Institute for Information Design (<http://iiid.net>), formerly Associate Dean of Art and Design at Coventry University
- **Manuel Lima**, author of “Visual Complexity: Mapping Patterns of Information” (<http://VisualComplexity.com>)
- **Frank van Ham**, data visualization inventor at IBM (<http://linkedin.com/in/FrankVanHam>)
- **Stephen Few**, author of “Show Me The Numbers”, “Information Dashboard Design: The Effective Visual Communication of Data”, and “Now You See It” (<http://PerceptualEdge.com>)

*... please contact any of these colleagues and ask them for a reference about me and my work.*

*Teaching:*

Since the mid-1990s I have been teaching extensively at various universities and art academies (an example of a visualization course I co-taught in 1997 is at <http://bit.ly/Visualization-1997>). I have supervised and coached my students in **interdisciplinary teamwork** and, among other things, in the design and creation of innumerable **data visualization projects**, several of which have risen to public attention. I am teaching students of **graphic design, multimedia design, human-computer interaction, media and communication studies, computer science, and data journalism**, and I am always learning at least as much from them as they are learning from me. I have **developed and taught courses** at the bachelor, master, research master and professional postgraduate level – here are a few examples:

- **Data Visualization – “Show me the Data”** (an annual interdisciplinary graduate course that I started in 2006 – <http://bit.ly/VisualizationCourse>, a few photographs of last year’s course activities are at <http://bit.ly/DataVis-pictures>, a couple of the illustrated reports of the annual public presentations are at <http://bit.ly/DataVis-2009>, <http://bit.ly/DataVis-2010> and <http://bit.ly/DataVis-2012>, and the course website is <http://ShowMeTheData.nl>)
- **Pictorial languages, graphics and visual information** (<http://bit.ly/PictorialLanguages>)
- **Structure and Rhetoric of Multimodal Representations** (<http://bit.ly/MultimediaRhetoric>)
- **Online Interactive Graphics** (<http://bit.ly/OnlineGraphics>)
- **Interfaces – Interaction Design, Information Design, and Information Architecture** (in Dutch, <http://bit.ly/InterfaceInteractionDesign> and <http://bit.ly/DesignForInteraction>)
- **Information Visualization**, at Pompeu Fabra University, Barcelona (<http://bit.ly/visualiz>)
- **Editorial Design**, at the Utrecht Graduate School of Visual Art and Design (staff page: <http://bit.ly/EditorialDesign>)

*Visual portfolio:*

A very small selection of data visualization **projects** and **Master theses** that I have supervised, and links to some events that I have been involved with, can be seen at <http://bit.ly/YuriPortfolio>

*Education:*

**Ph.D.** in **Computer Science**, dissertation titled “**The Language of Graphics: A Framework for the Analysis of Syntax and Meaning in Maps, Charts and Diagrams**” (2002). **M.Sc.** in **Medicine** (1990).

*Boards and committees:*

I am member of various **international advisory boards and committees**, for example I am an **Associate Fellow** of the **Communication Research Institute** (Australia), and a member of the **Editorial Board** of the international **Information Design Journal** (2001 – Present).

*A couple of examples of invitations:*

- **Invited opening keynote address** at the 4th **International Conference on Information Design**, Rio de Janeiro (2009).
- Presentation at **DD4D – Data Designed for Decisions** – Enhancing social, economic and environmental progress, for the **OECD**, Paris, sharing the stage with **Hans Rosling** and other inspiring colleagues in the field of data, design and development (2009).
- Member of the **jury** for the **National Infographics Awards** (2010).

*Timeline:*

- 2003 – Present **Tenured Assistant Professor in Information Visualization and Digital Media**, Faculty of Humanities, University of Amsterdam.
- 2006 – Present **Lecturer in Information Graphics**, graduate program in Editorial Design, Utrecht Graduate School of Visual Art and Design.
- 2007 – Present **Co-Founder and Co-Chair** of the annual **Show me the Data** symposia.
- 2011 – Present **Lecturer in Data Visualization**, Pompeu Fabra University, Barcelona.
- 1999 – Present **General Editor** (1999) of the international **Information Design Journal** (ad interim), and since 2001 member of the journal's **Editorial Board**.
- 2011 – Present **Associate Fellow** of the **Communication Research Institute**, Australia.
- 2008 – 2009 **Curriculum developer** and instructor of “**Collect, Visualize, Analyze**” for a new inter-faculty undergraduate degree in sustainability studies.
- 2002 **Ph.D. in Computer Science: “The Language of Graphics: A Framework for the Analysis of Syntax and Meaning in Maps, Charts and Diagrams”**, **Institute for Logic, Language and Computation**, University of Amsterdam.
- 1999 – 2000 **Assistant curator** of and **contributor** to **InfoArcadia**, the traveling exhibition about information visualization, The Hague, Coventry (UK), Amsterdam.
- 1995 – 1999 **Founder and moderator** of the international **InfoDesign** forum – the first Internet-based forum about information design and information graphics. Co-founder of the first information design portal: <http://InformationDesign.org>
- 1994 – 1998 **Research and teaching in Data Visualization**, University of Amsterdam.
- 1993 – 1994 Department of **Cognitive Psychology**, University of Amsterdam: studied towards second M.Sc. degree (after a year I was offered my research position).
- 1991 – 1992 Scientific staff member, **Department of Information and Documentation**, University Library, Maastricht University.
- 1991 **Visual concept developer** for **Science Infographics**, Stam, Rijswijk, Netherlands.
- 1985 – 1990 Studied for and received **M.Sc.** degree in **Medicine**, Maastricht University.
- 1984 – 1985 Studied for and received entry diploma for Medical School, The Netherlands.
- 1982 – 1984 Teacher's assistant in a school for disabled children, Germany.
- 1967 – 1982 Elementary school in **Germany** and in **Australia** (Sydney), high school in **Germany**, and college in **California** (sustainability studies).
- 1962 Born in Hannover, Germany.

*Publications:*

- **Graphics with a Cause, and Universal Principles for Visualizing Information** (book chapter). In: P. Owen and C. Požar (Eds.): About Information Design. Ljubljana Museum of Architecture (book forthcoming, 2013).
- **The Universal Principles of Graphics** (book chapter). In: E. Lentjes and H. Hoeks (Eds.): Handboek Typografie. Artez Press (book forthcoming, 2013).

*Publications (continued):*

- **1 - Landmark Work in the Theory and Practice of Diagramming, 2 - The Language of Diagrams, 3 - Visual Statistics in the Public Interest** (three book chapters). In: C. Richards (Ed.): *Diagrammatics*. Gower Publishing (book forthcoming, 2013).
- **Diagrams for the Masses: Raising Public Awareness – From Neurath to Gapminder and Google Earth** (book chapter). In: G. Stapleton, J. Howse, and J. Lee (Eds.): *Diagrammatic Representation and Inference*. Berlin: Springer, pp. 282-292, with R. Niño Zambrano (2008).
- **“Beautiful Evidence” – A Critical Review of the Work of Edward Tufte**. *Information Design Journal* 15 (2), pp. 190-193 (2007).
- **Syntactic Structures in Graphics**. *Image – Journal of Interdisciplinary Image Science* (5), Special issue on Computational Visualistics and Picture Morphology, pp. 23-35 (2007).
- **Objects and Spaces: The Visual Language of Graphics** (book chapter). In: D. Barker-Plummer, R. Cox, and N. Swoboda (Eds.): *Diagrammatic Representation and Inference*. Berlin: Springer, pp. 104-108 (2006).
- **Network Nations** (book chapter). In: J. Abrams and P. Hall (Eds.): *Else/Where: Mapping – New Cartographies of Networks and Territories*. Minneapolis: University of Minnesota Design Institute, pp. 62-67, with Ben Schouten (2006).
- **The Language of Graphics: A Framework for the Analysis of Syntax and Meaning in Maps, Charts and Diagrams** (book, Ph.D. thesis). Amsterdam: Institute for Logic, Language and Computation, University of Amsterdam, 198 pages (2002).
- **A Meta-Taxonomy for Diagram Research** (book chapter). In: M. Anderson, B. Meyer and P. Olivier (Eds.), *Diagrammatic Representation and Reasoning*. London, UK: Springer, pp. 47-64, with Alan Blackwell (2002).
- **Grundprinzipien Grafischer Darstellungen** (book chapter). In: *Navigation durch Text, Bild und Raum*. Hamburg, Germany: Arbeitskreis Forum Typografie, pp. 124-137 (2001).
- **Meaningful Space** (book chapter). In: J. Abrams (Ed.): *If/Then: Design Implication of New Media*. Amsterdam: Netherlands Design Institute, pp. 72-74 (1999).
- **A Taxonomy of Diagram Taxonomies**. In: *Proceedings of Thinking with Diagrams – Is there a Science of Diagrams?* 22-23 August 1998, Aberystwyth, UK, pp. 60-70, with Alan Blackwell (1998).
- **Meaningful Space: How Graphics Use Space to Convey Information**. In: *Proceedings of Vision Plus 4: The Republic of Information – Design for Global Communication*, School of Design, Carnegie Mellon University, Pittsburgh, pp. 108-126 (1998).
- **Structure-Preserving Visualization**. *Proceedings of the CODATA Euro-American Workshop on Visualization of Information and Data – Where are we and where do we go from here?* 24-25 June 1997, Paris, France (1997).
- **Formal Specification of a Graphic Design Theory**. In: *Proceedings of TVL 97, International IEEE Workshop on Theory of Visual Languages*, September 1997, Capri, Italy, pp. 97-116, with D. Wang and H. Zeevat (1997).
- **Towards a Design Theory for Visualization**. In: *Proceedings of Accolade 1996*, Dutch Research School in Logic, University of Amsterdam, pp. 65-77 (1996).
- **The Visual Grammar of Information Graphics**. In: N. H. Narayanan and J. Damski (Eds.), *Proceedings of the AID '96 Workshop on Visual Representation, Reasoning and Interaction in Design*, Stanford University, with J. de Bruin, T. Janssen and R. Scha (1996).