

Till Andreas Heilmann

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ACADEMIC POSITIONS

Substitute Professor of Digital Media and Methods | University of Siegen

November 2020 – July 2021

- Courses on history, criticism and aesthetics of digital media

Principal Investigator | University of Bonn

February 2020 – Present

- Project “The Processed Picture: Imaging in the Age of Photoshop”
- Research on digital image processing, theory of digital images and digital visual culture

Research Associate | University of Bonn

April 2015 – January 2020

- Research on programming as a cultural technique, computer graphics and image processing, 3-D printing, AI, digital artifacts and histories of the Internet
- Courses on history and cultural principles of digital media, digital DIY and net critique
- Organizing and holding conferences and workshops
- Academic self-government, e.g. assessing applications for M.A. in media studies and transfer of academic credits

Research Associate | University of Siegen

April 2014 – March 2015

- Research on personal computing, digital codes and interfaces and digital capitalism
- Courses on culture of personal computing
- Organizing and holding conferences and workshops
- Academic self-government, e.g. holding welcome events for new students

Obermann Fellow-in-Residence | University of Iowa

January 2012 – June 2012

- Research on theory of digitality and digitization of handwriting and scripts

Guest Researcher | University of Siegen

July 2011 – December 2011

- Completing monograph *Textverarbeitung*

Research Associate | University of Basel

November 2003 – March 2014

- Research on digital word processing, tactility, coding and human-computer interaction
- Courses on digitization of writing, media history, media semiotics and history of media studies
- Department’s appointee for implementation of BA and MA curricula in media studies
- Academic self-government and delegate in university committees
- Design and implementation of department’s website

HIGHER EDUCATION

Doctor of Philosophy | University of Basel

July 2008

Doctorate with a dissertation on the history of computerized writing (*summa cum laude*)

Master of Arts | University of Basel

February 2003

German, media studies and history (*summa cum laude*)

GRANTS FUNDED

Principal Investigator | Deutsche Forschungsgemeinschaft
August 2019

Project “The Processed Picture: Imaging in the Age of Photoshop”

Fellowship for Junior Researchers | Swiss National Foundation

December 2010

Project “The push button and the digital condition”

CANDIDATE RANKINGS

W2 professorship Medien, Algorithmen und Gesellschaft | Paderborn University

2017

secundo loco

W1 professorship Medienwissenschaft (Digitalkulturen)

| University of Cologne

2012

secundo loco

TEACHING

- **More than 30 courses** developed and taught at six universities, some in English
- More than 20 graduate and undergraduate courses on the history, theory, culture and practices of digitality and digital media

PUBLICATIONS

- **Authored more than 30 texts** and edited 7 special issues of journals or volumes
- **5 peer reviewed articles** on digitality and digital media in renowned journals
- **6 contributions in English** to journals or edited volumes

KEYNOTES AND PRESENTATIONS

- **Talks at German and international institutions** (incl. Massachusetts Institute of Technology, University of British Columbia and Swiss Federal Archive)
- **2 Keynotes** and 13 invited papers (at Cornell University, University of Bristol, Graz University of Technology and others)

TECHNICAL SKILLS

- Intermediate in C, Python, Javascript, VBA, AWK and Unix shell scripts
- Advanced in HTML/CSS, CSL and \LaTeX

MORE

- **Editorial staffer** Zeitschrift für Medienwissenschaft
- **Reviewer** for research funding organizations, journals and publishers (incl. DFG, FWF, *Int. J. Commun.*, *Can. J. Commun.*, *New Media Soc.* and Univ. of California Press)
- **Author of citation styles** in CSL for reference management software like Zotero, Citavi, Mendeley and others

PUBLICATIONS

Books

2012

- Textverarbeitung. Eine Mediengeschichte des Computers als Schreibmaschine [Word Processing: A Media History of Computers as Writing Machines]. Bielefeld: Transcript.

Edited volumes

2020

- Friedrich Kittler 1985/1986. Ed. together with Jens Schröter (*forthcoming*).

2018

- Ambient: Ästhetik des Hintergrunds [Ambient: Aesthetics of the Background]. Ed. together with Jens Schröter, Gregor Schwing and Dominik Maeder. Berlin–Heidelberg: Springer.
- Marx – Geld – Digitale Medien [Marx – Money – Digital Media] (= Maske und Kothurn 2). Ed. together with Jens Schröter.

2017

- Medien verstehen. Marshall McLuhans *Understanding Media* [Marshall McLuhan's *Understanding Media*]. Ed. together with Jens Schröter. Lüneburg: Meson.

2016

- Medienwissenschaft und Kapitalismuskritik [Media Studies and Critique of Capitalism] (= Navigationen 2). Ed. together with Jens Schröter.

2015

- 3D-Druck [3D Printing] (= Sprache und Literatur 115–116). Ed. together with Christoph Ernst, Thomas Hensel and Jens Schröter.

2013

- Interventionen: Festschrift für Georg Christoph Tholen [Interventions: Festschrift for Georg Christoph Tholen]. Ed. together with Frank Haase. Marburg: Schüren.

2011

- medias in res. Medienkulturwissenschaftliche Positionen [medias in res: Basic Positions in Culturally Oriented Media Studies]. Ed. together with Anne von der Heiden and Anna Tuschling. Bielefeld: Transcript.

Articles

(Peer reviewed)

2020

- Blackbox Bildfilter: Unschärfe von Photoshop zur Röntgentechnischen Versuchsanstalt Wien [Black Box Image Filter: Unsharp Mask from Photoshop to the X-Ray Research Institute Vienna]. In: Navigationen 2: Filter: 75–93.
- Formatwechsel. Zur Methodendebatte [Format Change: On the Debate on Methods]. Together with Florian Sprenger and Christoph Engemann. In: Zeitschrift für Medienwissenschaft 23/2: 188–191.
- Eine Software-Studie zu Photoshop [A Software Study on Photoshop]. In: Rundbrief Fotografie 3 (*forthcoming*).

2019

- Ontography and Ontology in Digital Imaging. In: Zeitschrift für Medien- und Kulturforschung 10/1: 133–146.
- Wege und Ziele: Die unstete Methodik der Medienwissenschaft [Paths and Goals. The Wandering Methodology of Media Studies]. Together with Christoph Engemann and Florian Sprenger. In: Zeitschrift für Medienwissenschaft 20/1: 150–161.

2018

- Comic Sans: The Typographer Replaced. In: Unterweiss Bulletin 2. <http://www.ueberschwarz.com/releases/comic-sans.html>.
- Literaturverwaltungsprogramme und 'Privatstile': Ein Vorschlag zur freiwilligen Selbstkontrolle [Reference Management Software and 'Private Styles': A Proposal for Voluntary Self-Regulation]. In: Zeitschrift für Medienwissenschaft 18/1: 197–201.

2017

- Der Klang der breiten Rille [The Sound of the Wide Groove]. A reply to Erhard Schüttpelz' contribution to the debate on operational chains. In: Internationales Jahrbuch für Medienphilosophie, vol. 3: Pathos/Passibilität. <http://jbmediaphilosophie.de/2017/3-replik-heilmann/>.

2016

- Zum Bonner Programm einer neo-kritischen Medienwissenschaft [On a Scheme for a Neo-Critical Approach in Media Studies]. Together with Jens Schröter. In: Navigationen 2: Medienwissenschaft und Kapitalismuskritik: 7–36.
- Zur Vorgängigkeit der Operationskette in der Medienwissenschaft und bei Leroi-Gourhan [On the Precedence of the Operational Chain in Media Studies and Leroi-Gourhan]. In: Internationales Jahrbuch für Medienphilosophie, vol. 2: Techne/Mechane: 7–29.

2015

- **Datenarbeit im "Capture"-Kapitalismus: Zur Ausweitung der Verwertungszone im Zeitalter informativer Überwachung** [Data-Labor in Capture-Capitalism. On the Expansion of the Valorization Zone in the Age of Informatic Surveillance]. In: Zeitschrift für Medienwissenschaft 13/2: 35–48.
- Jede/r, alles, immer, überall. Zum Diskurs des Machens am Beispiel 3D-Druck [Anyone, Anything, Anytime, Anywhere: On the Discourse of Making Using 3D Printing as an Example]. In: Sprache und Literatur 115–116: 3D-Druck. Ed. Christoph Ernst, Till A. Heilmann, Thomas Hensel and Jens Schröter: 6–20.
- Karl Büchers Kriegsschriften. Aus der Vorgeschichte der deutschsprachigen Kommunikations- und Medienwissenschaft [Karl Buecher's 'War Writings': On the Prehistory of German Communication and Media Studies]. In: LiLi. Zeitschrift für Literaturwissenschaft und Linguistik 179: 96–106.
- **Reciprocal Materiality and the Body of Code**. In: Digital Culture & Society 1/1: 39–52.

2014

- Ein Blick in den Rückspiegel. Zur Vergangenheit und Gegenwartigkeit von *Understanding Media* [A Look in the Rear-View Mirror. On the Past and Presence of *Understanding Media*]. In: Navigationen 2: 87–101.
- **Handschrift im digitalen Umfeld** [Handwriting in the Digital Environment]. In: Osnabrücker Beiträge zur Sprachtheorie (OBST) 85: 169–192.
- Ihre Medientheorie auf einer Seite? [Your Media Theory On One Page? First part of the chain letter]. In: Zeitschrift für Medienwissenschaft 10/1: 28–30.
- **"Tap, tap, flap, flap." Ludic Seriality, Digitality, and the Finger**. In: eludamos. Journal for Computer Game Culture 8: 33–46.

2010

- Digitale Kodierung und Repräsentation. DVD, CSS, DeCSS [Digital Decoding and Representation: DVD, CSS, DeCSS]. In: Navigationen 2: 95–112.
- **Digitalität als Taktilität. McLuhan, der Computer und die Taste** [Digitality as Tactility: McLuhan, the Computer and the Key]. In: Zeitschrift für Medienwissenschaft 3/2: 125–134.

Book chapters

2020

- Anfänge. Über Diskurse der Digitalisierung [Beginnings: On Discourses of Digitization]. In: Wovon sprechen wir, wenn wir von Digitalisierung sprechen? Ed. Martin Huber, Sybille Krämer and Claus Pias. Bayreuth: University of Bayreuth 2020, S. 13–35.
- Friedrich Kittler's Alphabetic Realism. In: Classics and Media Theory. Ed. Pantelis Michelakis. Oxford: Oxford University Press, pp. 29–51.

2019

- Algorithmus [Algorithm]. In: Mensch-Maschine-Interaktion: Handbuch zu Geschichte – Kultur – Ethik. Ed. Kevin Liggieri and Oliver Müller. Stuttgart: J. B. Metzler, pp. 229–231.
- Digital/analog. In: Mensch-Maschine-Interaktion: Handbuch zu Geschichte – Kultur – Ethik. Ed. Kevin Liggieri and Oliver Müller. Stuttgart: J. B. Metzler, pp. 257–259.
- Räume der Textverarbeitung [Spaces of Word Processing]. In: Das Büro: Zur Rationalisierung des Interieurs, 1880–1960. Ed. Gianenrico Bernasconi and Stefan Nellen. Bielefeld: Transcript, pp. 193–206.

2018

- Es gibt keine Software. Noch immer nicht oder nicht mehr [There is No Software – Still or Anymore]. In: Smartphone-Ästhetik: Zur Philosophie und Gestaltung mobiler Medien. Ed. Oliver Ruf. Bielefeld: Transcript, pp. 159–178.

2017

- Can We Touch Digital Artefacts? In: Prière de toucher: The Touch of Art. Ed. Museum Tinguely. Weitra: Bibliothek der Provinz, pp. 53–60.
- Married... with a Mission. THE AMERICANS. Together with Anna Tuschling. In: Von GAME OF THRONES bis THE WALKING DEAD: Interpretation von Kultur in Serie. Ed. Timo Storck and Svenja Taubner. Berlin–Heidelberg: Springer, pp. 67–86.
- Worin haust ein Computer? Über Seinsweisen und Gehäuse universaler diskreter Maschinen [In What Does a Computer Reside? On the Modes of Existence and Casings of Universal Discrete Machines]. In: Gehäuse: Mediale Einkapselungen. Ed. Christina Bartz et al. Paderborn: Wilhelm Fink, pp. 35–51.

2016

- Innis and Kittler: The Case of the Greek Alphabet. In: Media Transatlantic: Developments in Media and Communication Studies Between North American and German-speaking Europe. Ed. Norm Friesen. Cham: Springer, pp. 91–110.

2015

- Handschrift und Algorithmus [Handwriting and Algorithm]. In: Diesseits des Virtuellen: Handschrift im 20. und 21. Jahrhundert. Ed. Urs Büttner et al. München: Wilhelm Fink, pp. 47–61.
- Der Laie ersetzt den Typografen [The Layman Replaces the Typographer]. In: 12 Gegenstände. Ed. Sophie Jung. Stuttgart: avedition, pp. 150–169.

- Die Oberflächlichkeit des Digitalen [The Superficiality of the Digital]. In: Das Wissen der Oberfläche. Ed. Christina Lechtermann and Stefan Rieger. Zürich–Berlin: Diaphanes, pp. 253–266.

2014

- Computer als Schriftmedium [The Computer as a Medium of Writing]. In: Handbuch Medienwissenschaft. Ed. Jens Schröter. Stuttgart–Weimar: J. B. Metzler, pp. 316–322.
- Dekonstruktion [Deconstruction]. In: Handbuch Medienwissenschaft. Ed. Jens Schröter. Stuttgart–Weimar: J. B. Metzler, pp. 54–60.
- Textverarbeiten [Word Processing]. In: Historisches Wörterbuch des Mediengebrauchs. Ed. Heiko Christian, Matthias Bickenbach and Nikolaus Wegmann. Wien–Köln–Weimar: Böhlau, pp. 585–595.

2013

- Medien als Metaphern – oder Metonymien? [Media as Metaphors – or Metonymies?]. In: Interventionen. Festschrift für Georg Christoph Tholen zum 65. Geburtstag. Ed. Frank Haase and Till A. Heilmann, Marburg: Schüren, pp. 123–142.

PRESENTATIONS

(Keynotes and invited papers)

2021

- **Digital prozessierte Bilder** [Processed Images]. Lecture series Medienästhetik des Bildes. University of Siegen. January 4 [forthcoming].

2019

- **Ancestral Sin: Orality and Literacy in Classical Media Theory**. Siren Echoes: Sound, Image, and the Media of Antiquity. Cornell University. Ithaca. November 8.
- **Computer Images and Imaginations – CGI in the Early 1990s**. (Re-)Imagining New Media in Art & Popular Culture at the End of the 20th Century. University of Bonn. Bonn. October 11.
- **How Writing Turned Digital** (Keynote). Academic Writing in Digital Contexts: Analytics, Tools, Mediality. Zurich University of Applied Sciences. Winterthur. June 6.
- **Diskurse des Digitalen** [Discourses of the Digital] (Keynote). DFG symposium Wovon sprechen wir, wenn wir von Digitalisierung sprechen? University of Bayreuth. Bayreuth. February 13.

2018

- **Das Internet in der Geschichte der Medien** [The Internet in the History of Media]. Lecture series Bildung und Digitalität. University of Bochum. Bochum. November 13.
- **Ontography and Digital Imaging**. Ontography: Procedures, Problems, Prospects. Weimar University. Weimar. October 19.
- **Programmierte Poesie. Zur Medialität computergenerierter Gedichte** [Programmed Poetry: On the Mediality of Computer-Generated Poems]. Mediale Poetologien der Literatur. University of Basel. Basel. October 13.
- **Artificial Intelligence and (Dark) Enlightenment**. The Democratization of Artificial Intelligence. University of Bochum. Bochum. September 6.9.

2017

- Digitale Bildformate. Das Beispiel Adobe Photoshop [Digital Image Formats: Adobe Photoshop]. Vom Medium zum Format. University of Bochum. Bochum. September 15.

2016

- **The Allure of the Ancients: On Kittler and the Greek Alphabet.** Media and Greco-Roman Classics. University of Bristol. Bristol. November 26.
- **3D Printing: (Un)Making Seriality.** Ästhetik und Praxis populärer Serialität. Free University of Berlin. Berlin. June 22.
- **Kann man digitale Artefakte ertasten?** [Can You Touch Digital Artifacts?] Prière de toucher – Der Tastsinn der Kunst. Tinguely Museum. Basel. March 7.

2015

- **Wie der Computer zur Schreibmaschine wurde** [How the Computer Became a Typewriter]. Dies academicus. University of Bonn. Bonn. December 2.
- **3D-Drucker. Zur Ideologie des Machens** [3D Printers: On the Ideology of Making]. Utopien: Wege aus der Gegenwart, Jahrestagung der Gesellschaft für Medienwissenschaft. Bayreuth University. Bayreuth. October 3.
- **Rechnerraum, Kommandozeile, Formfaktor: Drei Gehäuse der Computer** [Computer Room, Command Line, Form Factor: Three Cases of Computers]. Gehäuse: Mediale Einkapselungen. University of Paderborn. Paderborn. May 21.
- **Tast(en)raum** [Key/Tactile Space]. Media Spaces: Distributing Technology in Architecture. Graz University of Technology. Graz. March 28.

2014

- **Vom kriegerischen Wesen der Medienwissenschaft** [On the Belligerent Character of Media Studies]. 1914: Diskurse des Krieges und kriegerische Diskurse. University of Bochum. Bochum. June 20.

2013

- **Display: Zur Oberfläche der Computer** [Display: On the Surface of Computers]. Das Wissen der Oberfläche: Episteme des Horizontalen und Strategien der Benachbarung. University of Bochum. Bochum. December 13.
- **Spaces of Word Processing.** Das Büro als Interieur (1880–1960). Schweizerisches Bundesarchiv. Bern. October 17.
- **Algorithmische Kritik oder Kritik der Algorithmen?** [Algorithmic Criticism or Critique of Algorithms?] Medien der Wissenschaften, Jahrestagung der Gesellschaft für Medienwissenschaft. Leuphana University. Lüneburg. October 5.
- **Maschinenschreiben** [Machine Writing]. Kulturtechnik Schreiben. University of Erlangen-Nürnberg. Erlangen. July 5.
- **Digitality and Humanity.** The Re/turn of the Nonhuman. University of Gießen. Gießen. May 27.

2012

- **Hand und Algorithmus** [Hand and Algorithm]. Diesseits des Virtuellen: Handschriften im 20. und 21. Jahrhundert. University of Tübingen. Tübingen. October 5.
- **Die Frage nach dem Digitalen** [The Question Concerning the Digital]. Annual conference of the German Society for Media Studies. University of Frankfurt. Frankfurt am Main. October 4.

2011

- **Textverarbeitungsmaschinen** [Word Processing Machines]. Annual conference of the German Society for Media Studies. University of Potsdam. Potsdam. October 7.
- **Taste und Finger: Anmerkungen zum Begriff des Digitalen** [Button and Finger: Some Remarks on the Concept of the

Digital]. HyperKult 20. Leuphana University. Lüneburg. July 8.

- **Buttons and Fingers: Our 'Digital Condition'.** Media in Transition 7. Massachusetts Institute of Technology. Cambridge. May 15.

2010

- **Markup and Materiality.** Conference of the European Society for Literature, Science, and the Arts. Riga. June 17.
- **Innis and Kittler: The Case of the Greek Alphabet.** Media Transatlantic. University of British Columbia. Vancouver. April 8.

2009

- **Digital Decoding and the Techno-Logic of Representation.** Annual conference of the Society for Literature, Science, and the Arts. Atlanta. November 8.
- **Digitalität als Taktilität** [Digitality as Tactility]. Annual conference of the German Society for Media Studies. University of Vienna. Vienna. October 3.
- **Wolkentechnik: Verfügbarkeit und Zerstreung** [Cloud Technics: Disposability and Dissipation]. HyperKult 18. Leuphana University. Lüneburg. July 3.
- **The Durable, the Portable, and the Processible.** Media in Transition 6. Massachusetts Institute of Technology. Cambridge. April 25.

TEACHING

(Graduate) courses taught and developed

Theories and methods

- **Zur Medialität digitaler Medien** [On the Mediality of Digital Media] (MA seminar, University of Bonn, winter 2018/19)
- **Netzkritik** [Net Critique] (BA seminar, University of Siegen, winter 2020/21; MA seminar, University of Bonn, winter 2015/16)
- **Tools of Methods** (Stream at Summer School Challenging Methods, Leuphana University of Lüneburg, summer 2015)
- **Theorien des Digitalen** [Theories of Digitality] (BA seminar, University of Basel, spring 2011 and 2014)
- **Digitalität und Taktilität** [Digitality and Tactility] (BA seminar, University of Basel, spring 2010)+

History

- **Technik- und Kulturgeschichte digitaler Medien** [History of Digital Media] (BA lecture, University of Siegen, winter 2020/21)
- **Medien und Mediengeschichtsschreibung: Digitale Medien** [Media and Media Historiography: Digital Media] (MA seminar, University of Bonn, winter 2019/20)
- **Mediengeschichtliche Umbrüche** [Turning Points in Media History] (BA seminar, University of Basel, winter 2005/06 to fall 2012)
- **Medienwissenschaft 2** [Media Studies 2] (BA Lecture, University for Applied Sciences NW Switzerland, summer 2005)
- **Medienwissenschaft 2 und 4** [Media Studies 2/4] (BA Lecture, University for Applied Sciences NW Switzerland, winter 2004/05)

Cultures and practices

- **Zur Ästhetik digital verarbeiteter Bilder** [On Aesthetics of Processed Images] (MA seminar, University of Siegen, winter 2020/21)
- **Programmieren als Kulturtechnik** [Programming as a Cultural Technique] (MA seminar, University of Bonn, winter

2017/18, summer 2019)

- **Geschichte und Theorie der digitalen Bildbearbeitung** [History and Theory of Digital Image Processing] (MA seminar, University of Bonn, summer 2018)
- Kulturtechnische Prinzipien digitaler Medien [Cultural Principles of Digital Media] (BA seminar, University of Bonn, winter 2016/17 and 2017/18)
- **Digitales Do it yourself** [Digital Do It Yourself] (MA seminar, University of Bonn, winter 2016/17)
- **Personal Computer: Geschichte, Technik, Theorie** [Personal Computer: History, Technology, Theory] (MA seminar, University of Siegen, winter 2014/15, University of Bonn, summer 2015)
- Lesen und Schreiben [Reading and Writing] (BA seminar, University of Basel, winter 2004/05)

Signs and codes

- Analoge und digitale Textverarbeitung [Word Processing Analog and Digital] (BA seminar, University of Basel, spring 2008)
- Code. Zur Theorie und Geschichte eines Paradigmas [Theory and History of Codes] (BA seminar, University of Basel, summer 2007)
- Sprache, Zeichen, Schrift [Language, Sign, Writing] (BA seminar, University of Basel, winter 2006/07)
- Semiotik der Medien [Semiotics of media] (BA seminar, University of Basel, summer 2005)

Genealogy of media studies

- Friedrich Kittlers Medienwissenschaft [Friedrich Kittler's Media Studies] (BA seminar, University of Vienna, winter 2015/16)
- McLuhan vs Kittler (BA seminar, University of Siegen, winter 2014/15)
- 50 Jahre Understanding Media [50 Years of Understanding Media] (BA seminar, University of Siegen, summer 2014)
- Kanadische und deutsche Medienwissenschaft [Canadian and German Media Studies] (BA seminar, University of Basel, spring 2013)
- Die Toronto-Schule der Medienwissenschaft [The Toronto School of Media Studies] (BA seminar, University of Basel, spring 2009)
- Moderne Klassiker der Medien- und Kulturtheorie [Modern classical texts in media studies] (BA tutorial, University of Basel, winter 2005/06 to fall 2009)

CONFERENCES AND WORKSHOPS

(Organization and realization)

2017

- Vergessen wir nicht – die Dekonstruktion! [Let's not forget – deconstruction!] University of Bonn

2016

- "Aber noch gibt es Medien" ["Meanwhile, however, there are still media"]. University of Bonn
- Mikro/Makro. Media History Working Group of the German Society for Media Studies (GfM). University of Bonn

2015

- Aufschreibesysteme 1985 / 2015 [Discourse Networks 1985 / 2015]. University of Bonn

2014

- Medien verstehen. Marshall McLuhans Understanding Media zum Fünfzigsten [Marshall McLuhan's Understanding Media at Fifty]. University of Siegen

2005

- zwischenzweien [In Between Two]. University of Basel