

# Georg Schiemer

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## Education

Ph.D. (with distinction), Philosophy, University of Vienna, 2010

*Dissertation:* Carnap's Early Semantics

M.A. (with distinction), Philosophy, University of Vienna, 2007

*Thesis:* Moderne Axiomatik, Krise der Anschauung und Quantifizierung  
(*Modern axiomatics, crisis of intuition, and quantification theory*)

M.A., International Commerce, Vienna University of Economics and Business, 2005

*Thesis:* Konkurrenzpositionierung im Wiener Museumsmarkt  
(*Competitive positioning in Vienna's museum market*)

## Academic Positions

Assistant Professor, Department of Philosophy, University of Vienna, 03/2017 -

Postdoctoral Fellow, Munich Center for Mathematical Philosophy (MCMP),  
LMU München, 05/2011 - 07/2013; 06/2015 - 02/2017

Senior Research Fellow and Project Leader, Department of Philosophy,  
University of Vienna, 05/2013 - 04/2014; 01/2015-02/2017

Lecturer, Department of Philosophy, University of Vienna, 2009 - 2012

Visiting Scholar, Department of Philosophy/FSI, Stanford University, 2009

Research Assistant, Department of Philosophy, University of Vienna, 01/2008 - 02/2010

DOC-Fellow of the Austrian Academy of Sciences (ÖAW), 01/2008 - 12/2009

## Areas of Research

History and Philosophy of Mathematics, History and Philosophy of Logic, Early Analytic Philosophy,  
Formal Philosophy of Science

## Grants and Awards

ERC Starting Grant, "The Roots of Mathematical Structuralism", March 2017

DFG - Grant in support of the MCMP Conference *Foundations of Mathematical Structuralism*, October  
2016

"35 under 35", nomination by the Austrian Science Fund (in cooperation with the newspaper *Der Standard*)

DFG - Grant in support of the MCMP Conference *Carnap on Logic*, July 2013

Erwin Schrödinger Fellowship, Project: "Between Logicism and Metalogic" (J 3158-G17), FWF (Austrian  
Research Fund), 2011 - 2014

KWA - Grant, University of Vienna, 2010

Visiting Scholarship, Stanford University/University of Vienna - Advanced Graduate Student Exchange Program, 2009

DOC-Fellowship of the Austrian Academy of Sciences (ÖAW), 2008 - 2009

Three “Dissemination”- Grants, University of Vienna, 2008- 2010.

Erasmus mobility grant (Université Sophia Antipolis, Nice), 2004

## Publications

### *Journal articles*

1. “Two types of indefinites: Hilbert and Russell” (with Norbert Gratzl), *Journal of Logics and their Application* (forthcoming)
2. “Carnap on logic and rationality”, *Synthese*, (2017), 194: pp.1–14
3. “A choice semantical approach to theoretical truth”, (with Holger Andreas), *Studies in History and Philosophy of Science*, (2016), 58, pp.1–8, DOI 10.1016/j.shpsa.2016.02.001
4. “Carnap’s early metatheory: scope and limits”, (with Erich Reck and Richard Zach), *Synthese*, (forthcoming, DOI 10.1007/s11229-015-0877-z)
5. “The epsilon-reconstruction of theories and scientific structuralism”, (with Norbert Gratzl), *Erkenntnis*, (2016), 81(2), pp.407-432
6. “Invariants and mathematical structuralism,” *Philosophia Mathematica*, (2014), 22/1, pp.70-107.
7. “Logic in the 1930s: type theory and model theory” (with Erich Reck), *The Bulletin of Symbolic Logic*, (2013), 19/4: pp.433-472.
8. “Carnap’s early semantics”, *Erkenntnis*, (2013), 78/3, pp.487-522.
9. “Carnap on extremal axioms, “completeness of the models,” and categoricity,” *The Review of Symbolic Logic*, (2012), 5/04, pp. 613-641.

### *Articles in Collected Volumes (peer reviewed)*

1. “Carnap’s *Untersuchungen*: logicism, formal axiomatics, and metatheory”, in: R. Creath (Ed.), *Rudolf Carnap and the Legacy of Logical Empiricism*, Springer, (2012), pp.13-36
2. “Fraenkel’s Axiom of Restriction: axiom choice, intended models, and categoricity”, in: B. Löwe and T. Müller (eds.), *Philosophy of Mathematics: Sociological Aspects and Mathematical Practice*, College Publications, London, (2010), pp.307-340.

### *Reviews & Other Writings*

1. “Logicism and ramsification”, Survey review of W. Demopoulos, *Logicism and its Philosophical Legacy*, Cambridge University Press, (2013), in: *Metascience*, (2014), 23/2: pp.255-261
2. Editorial & Interview with Michael Friedman, *The Reasoner*, (2013), 7/5, pp.52-54.
3. M. Friedman and R. Creath (Eds.) *The Cambridge Companion to Carnap*, Cambridge University Press, (2007), in: McGuinness, B.F. (Ed.) *Friedrich Waismann - Causality and Logical Positivism, Vienna Circle Institute Yearbook*, Springer, (2011), pp.346-349

## Work in Progress

### Articles

1. “What are structural properties?” (with Johannes Korbmacher) (conditionally accepted)
2. “Structural abstraction and purity”, (with John Wigglesworth), (under review)
3. “Hilbert, duality, and the geometrical roots of model theory” (with Günther Eder), (under review)
4. “What structural properties are all about”, (with Johannes Korbmacher), (under revision)
5. “Semantics in type theory” (in progress)
6. “Carnap’s mathematical structuralism” (in progress)
7. “Cassirer and the structural turn in geometry” (under review)
8. “Non-standard logicism” (in progress)
9. “Transfer principles in Klein’s Program” (in progress)

### Editions & Translations

1. *Carnap on Logic*, Special Issue, *Synthese*, (2017), 194/1
2. *Rudolf Carnap, Collected Works, Vol. III: Pre-Syntax Logic, 1927-1934* (bilingual edition), E. Reck, G. Schiemer, and D. Schlimm, eds. and trans., under contract with *Oxford University Press*, (in progress)
3. *The Prehistory of Mathematical Structuralism*, (co-edited with E. Reck), under contract with *Oxford University Press*, (in progress)
4. *Foundations of Mathematical Structuralism* (co-edited with J. Wigglesworth), Special Issue of *Philosophia Mathematica*, (in progress)

## Research Projects

1. *Carnap’s Early Semantics*, DOC-Grant, Austrian Academy of Sciences, 01/2008 - 12/2009, € 70.000,-.
2. *Between Logicism and Metalogic: Nonfoundational Uses of Type Theory*, Schrödinger fellowship, FWF (J3158-G17), 04/2011-05/2014, € 141.000,-.
3. *The Emergence of Mathematical Structuralism: Historical and Philosophical Perspectives*, FWF Stand Alone Project (P 27718), 01/01/2015-31/12/2018, € 349.900,-
4. *Mathematics: Objectivity by Representation* (MathObRe), co-funded by ANR-DFG, (Section “Theoretical terms vs. mathematical terms”), Project member from 15/06/2015 -28/02/2017
5. *The Roots of Mathematical Structuralism*, ERC Starting Grant, 03/2017-02/2022, € 1.364.097,-

## Professional Service

### Editorial service

- Member of the editorial board of *The Collected Works of Rudolf Carnap*;
- Member of the editorial board of *The Reasoner*.

### Refereeing

I have refereed papers for *Erkenntnis*, *History and Philosophy of Logic*, *The Reasoner*, *European Journal for Philosophy of Science*, and *Journal for the History of Analytic Philosophy*, *The British Journal for the Philosophy of Science*, and *Philosophia Mathematica*.

### Conference Organization

1. *Structural Methods in Nineteenth-Century Mathematics*. Workshop, University of Vienna, July 13-14, 2017. Speakers: José Ferreiros, Günther Eder, Georg Schiemer, Eduardo Giovannini, Francesca Biagioli, Dirk Schlimm, Paola Cantù, Erich Reck.
2. *Foundations of Mathematical Structuralism*. Conference, MCMP/LMU Munich, October 12-14, 2016. Invited speakers: Steve Awodey, Geoffrey Hellman, Øystein Linnebo, Erich Reck, Gerhard Heinzmann, Hannes Leitgeb, James Ladyman, Mary Leng, Jessica Carter, Elaine Landry . (External funding by the DFG, 15.000,- Euro.)
3. *Origins of Structuralism*. Workshop, University of Vienna, September 18, 2015. Speakers: Dirk Schlimm, Paola Cantù, Jessica Carter, Erich Reck.
4. *The Prehistory of Mathematical Structuralism* (with Erich Reck). Symposium at HOPOS 2014, Ghent, June 4, 2014 Speakers: Erich Reck, Clinton Tolley, Janet Folina, Georg Schiemer
5. *Putnam's Model-Theoretic Arguments* (with Julien Murzi and Florian Steinberger). Munich, May 23, 2013. Speakers: Igor Douven, Tim Bays, Tim Button, Mathias Frisch, Kate Hodesdon. (External funding by the Münchner Universitätsgesellschaft, 1.500,- Euro.)
6. *Carnap on Logic*. Munich, July 4-6, 2013. Speakers: Michael Friedman, Steve Awodey, Erich Reck, Richard Zach, Patricia Blanchette, Richard Creath, Catarina Dutilh-Novaes, Pierre Wagner, Sebastian Lutz, André Carus, and Florian Steinberger. (External funding by the DFG, 12.000,- Euro.)

### Professional Memberships

HOPOS, since 2010

EPSA, since 2007

### Presentations

TBA, International Wittgenstein Symposium, Kirchberg, 5-11/8/2018 (invited)

“Carnap’s structuralism”, Conference *Früher Carnap im historischen Kontext*, Konstanz, 5-6/10/2017 (invited)

“Transfer principles”, Workshop *Structuralist Methods in Modern Mathematics*, Vienna, 12-14/07/2017

“The structuralist thesis reconsidered”, *The Society for Exact Philosophy 2017 Conference*, Calgary, 05-07/05/2017

“Carnap’s structuralist thesis”, *SSHAP Sixth Annual Conference*, Calgary, 8-10/5/2017

“Geometrical roots of model theory”, Conference *Model Theory: Philosophy, Mathematics and Language*, Munich, 9-12/01/2017 (invited)

“Transfer principles and structural equivalence”, Masaryk University, Brno, 01/12/2016 (invited)

“Putnam on conditional logicism and modalism”, Conference Putnam’s Path, Maribor, 15/11/2016

“Cassirer, Klein, and geometrical structuralism”, *7th Symposium on Philosophy and History of Science and Technology: Structuralism: Roots, Plurality and Contemporary Debates*, Evora, 04-05/11/2016

“Klein’s program and structural equivalence”, MCMP Colloquium, 14/07/2016

- “Felix Klein’s invariant-theoretic structuralism”, Conference *The Emergence of Structuralism and Formalism*, Prague, 24-26/06/2016
- “‘Wissenschaftslogik’ in the International Encyclopedia of Unified Science”, Workshop *Mathematicians and mathematics in the national encyclopedias (1910-1940)*, 02-03/06/2016
- “Transfer principles and structuralism”, Logik Café Colloquium, Vienna, 25/01/2016
- “Cassirer, Klein, and geometrical structuralism”, Conference *Neo-Kantian Perspectives on the Exact Sciences*, Konstanz, 23/01/2016
- “Transfer principles and structuralism”,
- Séminaire commun, *Paris-Nancy-Munich MathObRe*-Project, Nancy, 21/01/2016 (invited)
  - Logik Café Colloquium, Vienna, 25/01/2016
- “Transfer principles and Klein’s geometrical structuralism”, Workshop *Roots of Mathematical Structuralism*, UC Riverside, Riverside, 15-16/01/2016 (invited)
- “Carnap on the foundations of mathematics”, Workshop *Les Mathématiques dans les Encyclopédies Européennes de L’Entre-deux-guerres*, Lille, 12-13/11/2015 (invited)
- “Duality and transfer principles: The rise of model-theoretic methods in projective geometry”, Third International Meeting APMP, Paris, 02-04/11/2015
- “Theoretical terms and structural content”, Philosophy of Science Colloquium - IVC, Vienna, 16/10/2015
- “What is theoretical truth?”, SIFA Midterm Conference *Truth and Persuasion*, Sassari, 24-26/09/2015
- “Klein’s invariant-theoretic structuralism”, Workshop *Origins of Mathematical Structuralism*, Vienna, 18/09/2015
- “Geometrical roots of model theory: duality and relative consistency”, MCMP Colloquium, Munich, 09/07/2015
- “The geometrical roots of model theory” (with Günther Eder), Logik Café Colloquium, Vienna, 29/06/2015
- “Hilbert’s epsilon terms, Russell’s indefinites, and indexed epsilon terms” (with Norbert Gratzl), Epsilon 2015, Montpellier, 10-12/06/2015
- “Husserl and Carnap on completeness”, 10th Congress of the OEGP, Innsbruck, 04-06/06/2015
- “What is theoretical truth?”, NNPS2015, Helsinki, 23-24/04/2015
- “Two approaches to theoretical truth”, Logic Café-Colloquium, Vienna, 13/03/2015
- “The structuralist thesis”, Conference *Representation and axiomatization: power and limits*, IHPST, Paris, 18-21/03/2015 (invited)
- “Carnap on logicism and structuralism”, Workshop *Origins and Varieties of Logicism*, IUSS Pavia, 16/03/2015 (invited)
- “Structuralism and structural properties”, Workshop *Logic and Philosophy of Mathematical Practices*, VUB, Brussels, 11-12/12/2014
- “What are structural properties”, Conference *Symposium on the Foundations of Mathematics*, Kurt Gödel Research Center, Vienna, 08/07/2014
- “Carnap on invariants and model structures”, HOPOS 2014, Ghent, 04/06/2014
- “Applying Carnap’s epsilon-reconstruction of theories”, Conference *Structural Realism, Structuralism and Theory Change*, MCMP Munich, 03/06/2014
- “What are structural properties?”, Conference *Philosophy of mathematics: objectivity, cognition, and proof*, FILMAT, Milan, 29-31/05/2014
- “Carnap’s *Gabelbarkeitssatz* reconsidered”, Symposium *Metalogic and Early Analytic Philosophy*, ASL/APA Pacific Meeting, San Diego, 16-20/04/2014

- “Carnap and Husserl on completeness”, *Wissenschaftsphilosophisches Kolloquium, IVC*, Vienna, 24/01/14
- “Structural properties”, *Colloquium “Logik Café”*, Vienna, 02/12/2013
- “Weyl on Brouwer - Reply to Toader,” *44th Husserl Circle Meeting*, Graz, 21/06/2013
- “The  $\epsilon$ -reconstruction of theories and scientific structuralism,”
- *EPSA13*, Helsinki, 28-31/08/2013
  - *The Analysis of Theoretical Terms*, Workshop MCMP, Munich, 04/04/2013
- “Invariants and mathematical structuralism,”
- *SILFS, Postgraduate Conference in Logic and Philosophy of Sciences*, Urbino, 30/05/2013
  - *Colloquium “Logik Café”*, Vienna, 15/10/2012
- “Semantics in type theory,”
- *Amsterdam Workshop on Truth*, Amsterdam, 15/03/2013
  - *14th CLMPS*, Nancy, 19-26/07/11
  - *Philosophy of Science in Europe - European Philosophy of Science and the Viennese Heritage (IVC)*, Vienna, 06/12/2011
- “Carnap’s mathematical structuralism,”
- *SILFS 2012*, Milano, 21/11/2012
  - *HOPOS 2012*, Halifax, 21-24/06/2012
- “Carnap’s structuralism reconsidered,” *GAP.8.*, Konstanz, 17-20/09/2012
- “Carnap on extremal axioms and categoricity”, Workshop on Carnap, MCMP - LMU, Munich 28/07/11
- “Carnap, Tarski und frühe Modelltheorie,” *Crossing Borders*, 9. Kongress der Österreichischen Gesellschaft für Philosophie, Vienna, 03/06/11
- “Hintikka and Hilbert on quantification” 2. *Joint Workshop of the Vienna Forum for Analytic Philosophy and the Philosophy Division, WU Wien*, 18/10/10
- “Carnap’s *Explizitbegriffe*: axiomatics, structuralism, logicism”
- Conference ‘*Carnap and the Legacy of Logical Empiricism*’, Vienna, 28/07/10
  - *DoktorandInnensymposion der Österreichischen Gesellschaft für Philosophie*, Salzburg, 05/03/10
  - *Wissenschaftsphilosophisches Kolloquium IVC*, 14/01/10
- “Carnap’s reception of Fraenkel’s axiom of restriction,” *Hopos 2010*, Budapest, 27/07/10.
- “Carnap’s early semantics: models, categoricity and extremality axioms”
- *EPSA2*, Amsterdam, 21-24/10/09
  - *GAP7*, Bremen, 14-19/09/09
- “Carnap’s early semantics: models, model extensions, and analyticity”
- *Graduate Student Colloquium*, Department of Philosophy, Stanford University, 13/04/09
  - *SoCal HPLM Group*, UC Irvine, 16/03/09
- “The early reception of Russell’s ramified type theory,” *Perspectives on Russell*, Zagreb, 24-26/11/08
- “Carnap’s early semantics: models, isomorphism and categoricity,” *FotFS-VII*, Brussels, 22-25/10/08
- “Fraenkel on restriction and categoricity: axiom choice, intended models and logical formalization,” *PhiMSAMP-03*, 16-18/05/08
- “Frege and Peano on quantification and logical scope,” *EPSA07*, Madrid, 14-17/11/08

“Frege’s semantic conception of quantifiers,” *SILFS07*, Milano, 8-10/10/07

“Frege und Peano über den logischen Begriff des Bereiches,” 8. *ÖGP-Kongreß*, Graz, 9-10/06/07

“Modelle musealer Repräsentation “Philosophische Aspekte, Geschichte und Perspektiven,” Research report, *Museum Joanneum Graz*, 07/06/03

## Teaching

*Wissenschaftstheorie* (Seminar), University of Vienna, Summer Term 2017

*Wissenschaftslogik* (Seminar), University of Vienna, Summer Term 2017

*Philosophy of mathematics* (with John Wigglesworth) (Seminar), LMU Munich, Winter Term 2016/2017

*What is structuralism?* (Seminar), University of Vienna, Summer Term 2015/2016

*Husserl und Carnap* (with Dejan Makovec) (Seminar), University of Vienna, Winter Term 2014/2015

*Structuralism in the philosophy of mathematics* (with Erich Reck) (Seminar), LMU Munich, Summer Term 2013

*Philosophische und Formale Wahrheitstheorien* (Seminar), University of Vienna, Winter Term 2011/2012

*Formale Wahrheitstheorien* (Seminar), University of Vienna, Winter Term 2010/2011

*Moderne Axiomatik und Anschauung* (Seminar), University of Vienna, Summer Term 2010

*Wahrheit* (with Richard Heinrich) (Seminar), University of Vienna, Winter Term 2009/2010

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