

## Biographical sketch – Prof. Dr. Joachim Funke / 17.2.2023

### (a) Professional Preparation & Academic Degrees

1972-1980 Studies in philosophy, psychology, German language at Düsseldorf University (Germany), Basel University (Switzerland), Trier University (Germany); 1980 Diploma in Psychology; 1980-1984 Doctoral studies at Trier University; 1984 Doctoral degree (Dr. rer.nat.) at Trier University; 1984-1997 Assistant and later Assistant Professor at Bonn University; 1990 Habilitation at Philosophische Fakultät Universität Bonn

### (b) Professional Experience

1980-1984 Research Assistant at Trier University, Fachbereich I – Psychologie; 1984-1997 Research Assistant, Assistant Professor (C1) and Associate Professor (C2) at Bonn University, Psychology Department since 1997 Full Professor (C4) for Cognitive, Theoretical and Experimental Psychology at the Department for Psychology, Heidelberg University; Dept. Head; retired April 2019

### (c) Selected Research Interests

- Thinking and Problem solving
- Decision making in Complex Environments

### (d) Selected Academic Services

- Editor-in-Chief of „Psychologische Rundschau“ (2005-2008)
- Consulting Board Member „Zeitschrift für Psychologie“ (1999-2008)
- reviewer for national and international psychology journals
- Spokesman of the Academic Senate at Heidelberg University (2011-2019)

### (e) Selected Research Grants

- different Projects on Dynamic Systems, Script Monitoring, Sequence Learning, sponsored by German Science Foundation (DFG), 1992-2009;
- Project on Complex Problem Solving, sponsored by Bundesministerium für Bildung (BMBF), 2007-2009
- Project on Problem Solving, sponsored by European Council (EC), 1997-2002

### (f) Selected Journal Publications

- Stocker, K., & Funke, J. (2019). How we conceptualize climate change: Revealing the force-dynamic structure underlying stock-flow reasoning. *Journal of Dynamic Decision Making*, 5, 1. doi: [10.11588/jddm.2019.1.51357](https://doi.org/10.11588/jddm.2019.1.51357)
- Dörner, D., & Funke, J. (2017). Complex problem solving: What it is and what it is not. *Frontiers in Psychology*, 8 (1153). doi: [10.3389/fpsyg.2017.01153](https://doi.org/10.3389/fpsyg.2017.01153)
- Funke, J. (2017). Scholarly merits: From measurement to judgment. *Perspectives on Psychological Science*, 12(6), 1145–1147. doi: [10.1177/1745691617740129](https://doi.org/10.1177/1745691617740129)
- Amelung, D., & Funke, J. (2015). Laypeople's risky decisions in the climate change context: Climate engineering as a risk-defusing strategy? *Human and Ecological Risk Assessment*, 21, 533-559. doi: [10.1080/10807039.2014.932203](https://doi.org/10.1080/10807039.2014.932203)
- Steinhorst, A., & Funke, J. (2014). Mirror neuron activity is no proof for action understanding. *Frontiers in Human Neuroscience*, 8(333), 1-4. doi: [10.3389/fnhum.2014.00333](https://doi.org/10.3389/fnhum.2014.00333)
- Wüstenberg, S., Greiff, S. & Funke, J. (2012). Complex problem solving: More than reasoning? *Intelligence*, 40, 1-14. doi: [10.1016/j.intell.2011.11.003](https://doi.org/10.1016/j.intell.2011.11.003)
- Funke, J. (2010). Complex problem solving: A case for complex cognition? *Cognitive Processing*, 11, 133-142. doi: [10.1007/s10339-009-0345-0](https://doi.org/10.1007/s10339-009-0345-0)
- Funke, J. (2001). Dynamic systems as tools for analysing human judgement. *Thinking and Reasoning*, 7, 69-89. doi: [10.1080/13546780042000046](https://doi.org/10.1080/13546780042000046)
- Buchner, A., & Funke, J. (1993). Finite state automata: Dynamic task environments in problem solving research. *Quarterly Journal of Experimental Psychology*, 46A, 83-118.

### (g) Selected Book Chapters

- Funke, J. (2022). Intelligence: The psychological view. In R. M. Holm-Hadulla, J. Funke, & M. Wink (eds.), *Intelligence—Theories and Applications* (S. 133–145). Heidelberg: Springer International Publishing. [https://doi.org/10.1007/978-3-031-04198-3\\_7](https://doi.org/10.1007/978-3-031-04198-3_7)

- Funke, J. (2022). Be prepared for the complexities of the twenty-first century! In R. J. Sternberg, D. Ambrose, & S. Karami (eds.), *The Palgrave Handbook of Transformational Giftedness for Education* (S. 171–180). Palgrave Macmillan. [https://doi.org/10.1007/978-3-030-91618-3\\_9](https://doi.org/10.1007/978-3-030-91618-3_9)
- Funke, J. (2019). Problem solving. In Sternberg, R. J., & Funke, J. (eds.), *The psychology of human thought. An introduction* (pp. 155-176). Heidelberg: Heidelberg University Publishing. doi: [10.17885/heiup.470.c6672](https://doi.org/10.17885/heiup.470.c6672)
- Funke, J., Fischer, A., & Holt, D.V. (2018). Competencies for complexity: Problem solving in the twenty-first century. In E. Care, P. Griffin, & M. Wilson (eds.), *Assessment and teaching of 21st century skills. Research and application* (pp. 55-73). Cham: Springer. doi: [10.1007/978-3-319-65368-6\\_3](https://doi.org/10.1007/978-3-319-65368-6_3)
- Csapó, B., & Funke, J. (2017). The development and assessment of problem solving in 21st-century schools. In B. Csapó & J. Funke (eds.), *The nature of problem solving. Using research to inspire 21st century learning* (pp. 19-31). Paris: OECD Publishing. doi: [10.1787/9789264273955-3-en](https://doi.org/10.1787/9789264273955-3-en)
- Funke, J. (2014). Problem solving: What are the important questions? In P. Bello, M. Guarini, M. McShane, & B. Scassellati (eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society* (pp. 493-498). Austin, TX: Cognitive Science Society.
- Funke, J. (2009). On the psychology of creativity. In P. Meusbürger, J. Funke & E. Wunder (eds.), *Milieu of creativity. An interdisciplinary approach to spatiality of creativity* (pp. 11-23). Dordrecht: Springer.
- Funke, J., & Frensch, P. A. (2007). Complex problem solving: The European perspective - 10 years after. In D. H. Jonassen (ed.), *Learning to solve complex scientific problems* (pp. 25-47). New York: Lawrence Erlbaum.
- Funke, J. (2006). Lösen komplexer Probleme. In J. Funke & P. A. Frensch (eds.), *Handbuch der Allgemeinen Psychologie - Kognition* (pp. 439-445). Göttingen: Hogrefe.
- Funke, J. (2006). Komplexes Problemlösen. In J. Funke (ed.), *Denken und Problemlösen (=Enzyklopädie der Psychologie, Themenbereich C: Theorie und Forschung, Serie II: Kognition, Band 8)* (pp. 375-445). Göttingen: Hogrefe.
- Wenke, D., Frensch, P. A., & Funke, J. (2005). Complex problem solving and intelligence: Empirical relation and causal direction. In R. J. Sternberg & J. E. Pretz (eds.), *Cognition and intelligence: Identifying the mechanisms of the mind* (pp. 160-187). New York: Cambridge University Press.

#### (h) Books

- Wendt, A. N., & Funke, J. (2022). *Wohin steuert die Psychologie? Ein Ausrichtungsversuch*. Göttingen: Vandenhoeck & Ruprecht.
- Betsch, T., Funke, J., & Plessner, H. (2011). *Denken – Urteilen, Entscheiden, Problemlösen*. Heidelberg: Springer. ISBN 3-64212-473-9.
- Funke, J., & Vaterrodt-Plünnecke, B. (2009). *Was ist Intelligenz? 3., überarbeitete Auflage*. München: Beck.
- Funke, J. (2003). *Problemlösendes Denken*. Stuttgart: Kohlhammer.
- Funke, J. (1992). *Wissen über dynamische Systeme: Erwerb, Repräsentation und Anwendung*. Berlin: Springer.
- Funke, W., Funke, J., Klein, M., & Scheller, R. (1987). *Trierer Alkoholismussinventar (TAI). Test und Handanweisung*. Göttingen: Hogrefe.
- Funke, J. (1986). *Komplexes Problemlösen - Bestandsaufnahme und Perspektiven*. Heidelberg: Springer.

#### (i) Edited Books

- Funke, J., & Wink, M. (Hrsg.). (2022). *Die vier Elemente*. Heidelberg: Heidelberg University Publishing. (=Heidelberger Jahrbücher Online, Band 7). <https://doi.org/10.17885/heiup.hdjbo.2022.1>
- Holm-Hadulla, R. M., Funke, J., & Wink, M. (eds.). (2022). *Intelligence—Theories and Applications*. Heidelberg: Springer International Publishing. <https://doi.org/10.1007/978-3-031-04198-3>
- Holm-Hadulla, R. M., Funke, J., & Wink, M. (Hrsg.). (2021). *Intelligenz – Theoretische Grundlagen und praktische Anwendungen*. Heidelberg: Heidelberg University Publishing. (=Heidelberger Jahrbücher Online, Band 6). <https://heiup.uni-heidelberg.de/journals/index.php/hdjbo/issue/view/2414>
- Funke, J. (Hrsg.) (2020). *Aggression. Studium Generale*. Heidelberg: Heidelberg University Publishing. doi: [10.17885/heiup.studg.2020.1](https://doi.org/10.17885/heiup.studg.2020.1)
- Funke, J., & Wink, M. (Hrsg.). (2020). *Entwicklung – Wie aus Prozessen Strukturen werden*. Heidelberg: Heidelberg University Publishing. (= Heidelberger Jahrbücher Online, Band 5). doi: [10.17885/heiup.hdjbo.2020.0](https://doi.org/10.17885/heiup.hdjbo.2020.0)
- Funke, J., & Wink, M. (Hrsg.). (2019). *Schönheit: Die Sicht der Wissenschaft*. Heidelberg University Publishing. (=Heidelberger Jahrbücher Online, Band 4) <https://doi.org/10.17885/heiup.hdjbo.2019.0>
- Sternberg, R. J., & Funke, J. (Eds.). (2019). *The psychology of human thought. An introduction*. Heidelberg: Heidelberg University Publishing. doi: [10.17885/heiup.470](https://doi.org/10.17885/heiup.470)
- Funke, J., & Wink, M. (Hrsg.) (2018). *Perspektiven der Mobilität*. Heidelberg: Heidelberg University Publishing. (= Heidelberger Jahrbücher Online, Band 3). doi: [10.17885/heiup.hdjbo.2018.0](https://doi.org/10.17885/heiup.hdjbo.2018.0)

- Csapó, B. & Funke, J. (Eds.) (2017). *The nature of problem solving. Using research to inspire 21st century learning*. Paris: OECD Publishing. doi: [10.1787/9789264273955-en](https://doi.org/10.1787/9789264273955-en)
- Wink, M., & Funke, J. (Hrsg.) (2017). *Wissenschaft für alle: Citizen Science*. Heidelberg: Heidelberg University Publishing. (= Heidelberger Jahrbücher Online, Band 2). doi: [10.17885/heiup.hdjbo.2017.0](https://doi.org/10.17885/heiup.hdjbo.2017.0)
- Wink, M., & Funke, J. (Hrsg.) (2016). *Stabilität im Wandel*. Heidelberg University Publishing. (=Heidelberger Jahrbücher Online, Band 1). <https://doi.org/10.17885/hdjbo.2016.0>
- Wassmann, J., Träuble, B. E., & Funke, J. (Eds.). (2013). *Theory of mind in the Pacific. Reasoning across cultures*. Heidelberg: Winter.
- Meusburger, P., Funke, J. & Wunder, E. (Eds.). (2009). *Milieus of creativity. An interdisciplinary approach to spatiality of creativity*. Dordrecht: Springer. ISBN 1-40209-876-6.
- Funke, J., & Frensch, P. (Eds.). (2006). *Handbuch der Allgemeinen Psychologie - Kognition*. Göttingen: Hogrefe.
- Funke, J. (Ed.). (2006). *Denken und Problemlösen (=Enzyklopädie der Psychologie, Themenbereich C: Theorie und Forschung, Serie II: Kognition, Band 8)*. Göttingen: Hogrefe.
- Kämmerer, A., & Funke, J. (Eds.). (2004). *Seelenlandschaften. Streifzüge durch die Psychologie. 98 persönliche Positionen*. Göttingen: Vandenhoeck & Ruprecht.
- Erdfelder, E., & Funke, J. (Eds.). (2004). *Allgemeine Psychologie und deduktivistische Methodologie*. Göttingen: Vandenhoeck & Ruprecht.
- Krüger, T., & Funke, J. (Eds.). (1998). *Psychologie im Internet. Ein Wegweiser für psychologisch interessierte User*. Weinheim: Beltz Verlag.
- Funke, J., & Fritz, A. (Eds.). (1995). *Neue Konzepte und Instrumente zur Planungsdiagnostik*. Bonn: Deutscher Psychologen Verlag.
- Frensch, P. A., & Funke, J. (Eds.). (1995). *Complex problem solving: The European perspective*. Hillsdale, NJ: Lawrence Erlbaum Associates.

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A complete list of conference presentations can be found here:

<https://joachimfunke.de/talks-lectures/>