

James R. Schmidt

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Education

- 2009** Ph.D. in Cognitive Psychology
University of Waterloo
Advisor: Derek Besner
- 2007** M.A. in Cognitive Psychology
University of Waterloo
Advisor: Derek Besner
- 2005** B.A. High Honours in Psychology (minor in Philosophy)
University of Saskatchewan
Advisor: Jim Cheesman

Research Experience

- 2018 –** Associate Professor
Université Bourgogne Franche-Comté (UBFC) / Université de Bourgogne
- 2009 – 2018** Postdoctoral Researcher
Ghent University / Research Foundation–Flanders (FWO)
Advisor: Jan De Houwer
- 2005** Research Assistant
NSERC / University of Saskatchewan
Advisor: Valerie A. Thompson
- 2005** Research Assistant
University of Saskatchewan
Advisor: Jim Cheesman
- 2004 – 2005** Research Programmer
University of Saskatchewan
Clients: Jim Cheesman, Lorin Elias, Peter Hall, Michael McGregor

Doctoral Supervision

- 2018-2021** Šaban, Iva
2019-2022 Iorio, Claudia

Stage Supervision

- 2019** Jondot, Anna

Teaching Experience

- 2019** Workshop Instructor
Universität Trier
Course: Introduction to the PEP model
- 2009 – 2018** Teaching Assistant
Ghent University
Courses: Introductory, Learning, Health, Clinical, Family
- 2005 – 2009** Teaching Assistant
University of Waterloo
Courses: Introductory, Statistics, Research Methods, Thesis
- 2008** Instructor
University of Waterloo
Course: Statistics (tutorial component)
- 2007** Guest Lecturer
University of Waterloo
Course: Psychology of Reading
- 2005** Tutor
University of Saskatchewan
Course: Advanced Cognitive Science
- 2004 – 2005** Teaching Assistant
University of Saskatchewan
Course: Introductory Psychology

Departmental Service

- 2011 – 2018** Academic bibliography manager

Editorial Contributions

- 2017 –** Associate Editor, Experimental Psychology
- 2016 –** Associate Editor, Frontiers in Psychology
- 2013 – 2015** Guest Associate Editor, Frontiers in Psychology

Ad Hoc Reviewer Contributions

- Acta Psychologica
- Advances in Cognitive Psychology
- Attention, Perception, & Psychophysics
- Brain and Behavior
- Brain Imaging and Behavior
- Cognition
- Cognition & Emotion
- Cognitive, Affective, & Behavioral Neuroscience
- European Journal of Cognitive Psychology
- Experimental Psychology
- Frontiers in Human Neuroscience
- Frontiers in Psychology
- Human Brain Mapping
- Human Movement Science
- Journal of Cognitive Psychology
- Journal of Experimental Psychology: Human Perception and Performance
- Journal of Experimental Psychology: Learning, Memory, and Cognition
- Learning and Motivation
- Memory
- Memory & Cognition
- Motivation and Emotion
- Neuropsychologia
- Perceptual and Motor Skills
- PLOS ONE
- Psicológica
- Psychiatry Research
- Psychological Research
- Psychology and Aging
- Psychology of Music
- Psychonomic Bulletin & Review
- Quarterly Journal of Experimental Psychology
- Visual Cognition

Grants, Contracts, Scholarships, and Awards

Grants

- 2018** Investissements d’Avenir, Project ISITE-BFC, ANR15-IDEX-0003
Title: Cognitive psychology, learning, and modelling
Amount: €472,500/3 years
- 2013** FWO Postdoctoral Researcher Mandate – Renewal (PI)
Title: Reassessing conflict: Basic learning processes or conflict adaptation?
Amount: €175,000/3 years (incl. €15,000 operating funds)
- 2010** FWO Postdoctoral Researcher Mandate (PI)
Title: Colour-word contingency learning: Automatic or controlled?
Amount: €165,000/3 years (incl. €15,000 operating funds)
- 2009** FWO Visiting Postdoctoral Fellowship (PI)
Title: Automatic processes in psychopathology and health-related behaviour
Amount: €29,000/1 year (incl. €2000 operating funds)

Contracts

- 2016** Methusalem Postdoctoral Fellowship (Resigned Early for UBFC)
Title: Learning and implicit processes
Amount: €180,000/3 years

Scholarships

- 2006** NSERC Canada Graduate Scholarship–Doctoral
Amount: \$105,000/3 years
- 2006** Ontario Graduate Scholarship–Doctoral (Offer Declined for NSERC)
Amount: \$60,000/4 years
- 2005** President’s Graduate Scholarship
Amount: \$40,000/4 years
- 2005** NSERC Canada Graduate Scholarship–Master’s
Amount: \$17,500/1 year
- 2004** University of Saskatchewan Undergraduate Scholarship
Amount: \$1,500/1 year

Awards

- 2005** NSERC Undergraduate Student Research Award
Amount: \$5,600
- 2004** Hantelman Humanities Scholarship
Amount: \$500

Approximate Total: €1,175,000 / \$1,770,000

Publications

Peer-Reviewed Journals

- in press** Liefoghe, B., Hughes, S., Schmidt, J. R., & De Houwer, J. (in press). Stroop-like effects for derived stimulus-stimulus relations. *Journal of Experimental Psychology: Learning, Memory, and Cognition*.
- 2019** Braem, S., Bugg, J. M., Schmidt, J. R., Crump, M. J. C., Weissman, D. H., Notebaert, W., & Egner, T. (2019). Measuring adaptive control in conflict tasks. *Trends in Cognitive Sciences*, *23*, 769–783.
- Schmidt, J. R. (2019). Evidence against conflict monitoring and adaptation: An updated review. *Psychonomic Bulletin & Review*, *26*, 753–771.
- Schmidt, J. R., & Lemerrier, C. (2019). Context-specific proportion congruent effects: Compound-cue contingency learning in disguise. *Quarterly Journal of Experimental Psychology*, *72*, 1119–1130.
- Schmidt, J. R., & De Houwer, J. (2019). Cue competition and incidental learning: No blocking or overshadowing in the colour-word contingency learning procedure without instructions to learn. *Collabra: Psychology*, *5*, Article 15.
- 2018** Schmidt, J. R., Augustinova, M., & De Houwer, J. (2018). Category learning in the colour-word contingency learning paradigm. *Psychonomic Bulletin & Review*, *25*, 658–666.
- Schmidt, J. R. (2018). Best not to bet on the horserace: A comment on Forrin and MacLeod (2017) and a relevant stimulus-response compatibility view of colour-word contingency learning asymmetries. *Memory & Cognition*, *46*, 326–335.
- Schmidt, J. R., Hartsuiker, R. J., & De Houwer, J. (2018). Interference in Dutch-French bilinguals: Stimulus and response conflict in intra- and interlingual Stroop. *Experimental Psychology*, *65*, 13–22.
- 2017** Schmidt, J. R. (2017). Time-out for conflict monitoring theory: Preventing rhythmic biases eliminates the list-level proportion congruent effect. *Canadian Journal of Experimental Psychology*, *71*, 52–62.
- Lemerrier, C., Simoës-Perlant, A., Schmidt, J. R., & Boujon, C. (2017). Stroop interference and development: Influence of expectation on color-naming response times. *European Review of Applied Psychology*, *67*, 43–50.
- 2016** Schmidt, J. R. (2016). Context-specific proportion congruency effects: An episodic learning account and computational model. *Frontiers in Psychology*, *7*, Article 1806.
- Schmidt, J. R., De Houwer, J., & Rothermund, K. (2016). The Parallel Episodic Processing (PEP) model 2.0: A single computational model of stimulus-response binding, contingency learning, power curves, and mixing costs. *Cognitive Psychology*, *91*, 82–108.
- Schmidt, J. R., & De Houwer, J. (2016). Time course of colour-word contingency learning: Practice curves, pre-exposure benefits, unlearning, and relearning. *Learning and Motivation*, *56*, 15–30.
- Schmidt, J. R. (2016). Proportion congruency and practice: A contingency learning account of asymmetric list shifting effects. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *42*, 1496–1505.

- Schmidt, J. R., & Weissman, D. H. (2016). Congruency sequence effects and previous response times: Conflict adaptation or temporal learning? *Psychological Research*, *80*, 590–607.
- Schmidt, J. R., & De Houwer, J. (2016). Contingency learning tracks with stimulus-response proportion: No evidence of misprediction costs. *Experimental Psychology*, *63*, 79–88.
- Schmidt, J. R. (2016). Temporal learning and rhythmic responding: No reduction in the proportion easy effect with variable response-stimulus intervals. *Frontiers in Psychology*, *7*, Article 634.
- Schmidt, J. R., & Liefoghe, B. (2016). Feature integration and task switching: Diminished switch costs after controlling for stimulus, response, and cue repetitions. *PLOS ONE*, *11*, e0151188.
- 2015** Schmidt, J. R., & Weissman, D. H. (2015). Contingent attentional capture triggers the congruency sequence effect. *Acta Psychologica*, *159*, 61–68.
- Schmidt, J. R., Notebaert, W., & Van Den Bussche, E. (2015). Is conflict adaptation an illusion? *Frontiers in Psychology*, *6*, Article 172.
- 2014** Schmidt, J. R. (2014). Contingency and congruency switch in the congruency sequence effect: A reply to Blais, Stefanidi, and Brewer (2014). *Frontiers in Psychology*, *5*, Article 1405.
- Schmidt, J. R., De Schryver, M., & Weissman, D. H. (2014). Removing the influence of feature repetitions on the congruency sequence effect: Why regressing out confounds from a nested design will often fall short. *Journal of Experimental Psychology: Human Perception and Performance*, *40*, 2392–2402.
- Schmidt, J. R., Lemerrier, C., & De Houwer, J. (2014). Context-specific temporal learning with non-conflict stimuli: Proof-of-principle for a learning account of context-specific proportion congruent effects. *Frontiers in Psychology*, *5*, Article 1241.
- Schmidt, J. R., & Weissman, D. H. (2014). Congruency sequence effects without feature integration or contingency learning confounds. *PLOS ONE*, *9*, e0102337.
- Schmidt, J. R. (2014). Contingencies and attentional capture: The importance of matching stimulus informativeness in the item-specific proportion congruent task. *Frontiers in Psychology*, *5*, Article 540.
- Schmidt, J. R. (2014). List-level transfer effects in temporal learning: Further complications for the list-level proportion congruent effect. *Journal of Cognitive Psychology*, *26*, 373–385.
- 2013** Schmidt, J. R. (2013). Temporal learning and list-level proportion congruency: Conflict adaptation or learning when to respond? *PLOS ONE*, *8*, e0082320.
- Schmidt, J. R. (2013). Questioning conflict adaptation: Proportion congruent and Gratton effects reconsidered. *Psychonomic Bulletin & Review*, *20*, 615–630.
- Schmidt, J. R., Cheesman, J., & Besner, D. (2013). You can't Stroop a lexical decision: Is semantic processing fundamentally facilitative? *Canadian Journal of Experimental Psychology*, *67*, 130–139.
- Schmidt, J. R. (2013). The Parallel Episodic Processing (PEP) model: Dissociating contingency and conflict adaptation in the item-specific proportion congruent paradigm. *Acta Psychologica*, *142*, 119–126.

- 2012** Schmidt, J. R., & De Houwer, J. (2012). Learning, awareness, and instruction: Subjective contingency awareness does matter in the colour-word contingency learning paradigm. *Consciousness and Cognition, 21*, 1754–1768.
- Schmidt, J. R., & De Houwer, J. (2012). Contingency learning with evaluative stimuli: Testing the generality of contingency learning in a performance paradigm. *Experimental Psychology, 59*, 175–182.
- Schmidt, J. R., & De Houwer, J. (2012). Adding the goal to learn strengthens learning in an unintentional learning task. *Psychonomic Bulletin & Review, 19*, 723–728.
- Schmidt, J. R., & De Houwer, J. (2012). Does temporal contiguity moderate contingency learning in a speeded performance task? *Quarterly Journal of Experimental Psychology, 65*, 408–425.
- 2011** Schmidt, J. R., & De Houwer, J. (2011). Now you see it, now you don't: Controlling for contingencies and stimulus repetitions eliminates the Gratton effect. *Acta Psychologica, 138*, 176–186.
- 2010** Schmidt, J. R., De Houwer, J., & Besner, D. (2010). Contingency learning in the blink of an eye: A resource dependent process. *Consciousness and Cognition, 19*, 235–250.
- 2008** Schmidt, J. R., & Besner, D. (2008). The Stroop effect: Why proportion congruent has nothing to do with congruency and everything to do with contingency. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 34*, 514–523.
- Schmidt, J. R., & Thompson, V. A. (2008). “At least one” problem with “some” formal reasoning paradigms. *Memory & Cognition, 36*, 217–229.
- 2007** Schmidt, J. R., Crump, M. J. C., Cheesman, J., & Besner, D. (2007). Contingency learning without awareness: Evidence for implicit control. *Consciousness and Cognition, 16*, 421–435.
- 2006** Risko, E. F., Schmidt, J. R., & Besner, D. (2006). Filling a gap in the semantic gradient: Color associates and response set effects in the Stroop task. *Psychonomic Bulletin & Review, 13*, 310–315.
- 2005** Schmidt, J. R., & Cheesman, J. (2005). Dissociating stimulus-stimulus and response-response effects in the Stroop task. *Canadian Journal of Experimental Psychology, 59*, 132–138.
- Other**
- 2019** Schmidt, J. R., & De Houwer, J. (2019). Correction to Schmidt and De Houwer (2012). *Experimental Psychology, 66*, 255–256.
- 2015** Schmidt, J. R., Notebaert, W., & Van den Bussche, E. (Eds.). (2015). Is conflict adaptation an illusion? [Special issue]. *Frontiers in Psychology*.
- 2012** Schmidt, J. R. (2012). Human contingency learning. In N. M. Seal (Ed.), *Encyclopedia of the sciences of learning* (pp. 1455–1456). New York: Springer.

Invited Talks and Major Conference Presentations

Symposium organisation

- 2017** Schmidt, J. R., Giesen, C., & Rothermund, K. (2017). Contingency learning, binding, and their interrelations. Symposium at the *European Society for Cognitive Psychology* in Potsdam, Germany.

Invited talks

- 2019** Schmidt, J. R. (2019). The Parallel Episodic Processing (PEP) model. Invited talk presented at *Université Franche-Comté* in Besançon, France.
Schmidt, J. R. (2019). Applications of an exemplar-based neural network. Invited talk presented at *Universität Trier* in Trier, Germany.
Schmidt, J. R. (2019). Integrative exemplar-based neural network. Invited talk presented at *Centre National de la Recherche Scientifique (CNRS)* in Paris, France.
- 2018** Schmidt, J. R. (2018). Learning, binding, and an exemplar-based neural network. Invited talk presented at *Universität zu Köln* in Cologne, Germany.
Schmidt, J. R. (2018). A single-mechanism account of contingency learning and binding effects. Invited talk presented at *Friedrich-Schiller-Universität Jena* in Jena, Germany.
Schmidt, J. R. (2018). Modelling cognition: Practice, learning, binding, instruction following, and goals. Invited talk presented at the *Methusalem Research Day* in Ghent, Belgium.
- 2017** Schmidt, J. R., Liefvooghe, B., & De Houwer, J. (2018). An episodic memory account of cued task switching. Invited symposium talk presented at the *Conference of Experimental Psychologists (TeaP)* in Marburg, Germany (with panel discussion).
Schmidt, J. R. (2017). Bridging learning and binding with a neural network of episodic memory. Invited talk presented at *Universität Trier* in Trier, Germany.
Schmidt, J. R. (2017). Attentional control and learning. Invited talk presented at *Centre National de la Recherche Scientifique (CNRS)* in Paris, France.
Schmidt, J. R. (2017). The Parallel Episodic Processing (PEP) model 2.0: Practice, learning, binding, and more. Invited talk presented at the joint meeting of the *Learning and Implicit Processes* and *Centre for the Psychology of Learning and Experimental Psychopathology (KU Leuven)* labs in Leuven, Belgium.
- 2016** Schmidt, J. R. (2016). The Parallel Episodic Processing (PEP) model. Invited talk presented at *Bristol University* in Bristol, UK.
Schmidt, J. R. (2016). Attentional control and learning. Invited talk presented at the *University of Groningen* in Groningen, Netherlands.
Schmidt, J. R. (2016). Attentional control and learning. Invited talk presented at the *University of Lincoln* in Lincoln, UK.
Schmidt, J. R. (2016). The Parallel Episodic Processing (PEP) model. Invited talk presented at the joint meeting of the *Learning and Implicit Processes* and *Friedrich-Schiller-Universität Jena* labs in Meinhards-Jestädt, Germany.

- Schmidt, J. R. (2016). Attentional control and learning. Invited talk presented at *Centre National de la Recherche Scientifique (CNRS)* in Paris, France.
- 2015** Schmidt, J. R. (2015). Reconsidering the evidence for conflict adaptation: Higher-order attentional control or lower-level learning biases? Invited talk presented at *Centre National de la Recherche Scientifique (CNRS)* in Paris, France.
- 2014** Schmidt, J. R. (2014). Contingency learning, temporal learning, and attentional control. Invited talk presented at the *Université de Bourgogne* in Dijon, France.
- 2011** Schmidt, J. R. (2011). The conflict adaptation illusion: Reassessing the proportion congruent and Gratton effects. Invited symposium paper presented at *Myths and Facts about Cognitive Control* in Ghent, Belgium.
- 2010** Schmidt, J. R., & De Houwer, J. (2010). Contingency learning overtime: SOA analyses. Invited symposium paper presented at the *Belgian Association for Psychological Science* in Brussels, Belgium.
- Schmidt, J. R. (2010). Colour-word contingency learning: A brief overview. Invited talk presented at the *University of Groningen* in Groningen, Netherlands.
- 2008** Schmidt, J. R., De Houwer, J., & Besner, D. (2008). Contingency learning in seven plus or minus two items: An implicit, working memory dependent process. Invited talk presented at *McMaster University* in Hamilton, Canada.
- 2005** Schmidt, J. R., & Cheesman, J. (2005). Locating the Stroop effect: Facilitation and inhibition in semantic and response processes. Invited talk presented at the *University of Waterloo* in Waterloo, Canada.
- Schmidt, J. R., & Cheesman, J. (2005). Locating the Stroop effect: Facilitation and inhibition in semantic and response processes. Invited talk presented at the *University of Western Ontario* in London, Canada.
- Schmidt, J. R., & Cheesman, J. (2005). Locating the Stroop effect: Facilitation and inhibition in semantic and response processes. Invited talk presented at *McMaster University* in Hamilton, Canada.
- Schmidt, J. R., & Cheesman, J. (2005). Locating the Stroop effect: Facilitation and inhibition in semantic and response processes. Invited talk presented at the *University of Victoria* in Victoria, Canada.

Other talks

- 2019** Schmidt, J. R., & De Houwer, J. (2019). Cue competition and incidental learning: No blocking or overshadowing in the colour-word contingency learning procedure without instructions to learn. Forthcoming poster presented at the *European Society for Cognitive Psychology* in Tenerife, Spain.
- 2017** Schmidt, J. R., De Houwer, J., & Rothermund, K. (2017). Are contingency learning and binding one and the same? Paper presented at the *European Society for Cognitive Psychology* in Potsdam, Germany (symposium organizer).
- 2016** Schmidt, J. R., & De Houwer, J. (2016). Misprediction costs nothing: Contingency learning and proportional retrieval. Paper presented at the *Belgian Association for Psychological Science* in Antwerp, Belgium.

- 2015** Schmidt, J. R., & Weissman, D. H. (2015). Contingent attentional capture triggers the congruency sequence effect. Paper presented at the *Belgian Association for Psychological Science* in Brussels, Belgium.
- 2014** Schmidt, J. R., De Schryver, M., & Weissman, D. H. (2014). Feature repetitions, sequential congruency, and regression: A response to Notebaert and Verguts (2007). Paper presented at the *Belgian Association for Psychological Science* in Leuven, Belgium.
- 2013** Schmidt, J. R. (2013). Item-specific proportion congruency: Dissociating contingency and conflict adaptation. Paper presented at the *European Society for Cognitive Psychology* in Budapest, Hungary (session chair).
Schmidt, J. R., & De Houwer, J. (2013). Colour-word contingency learning: Instructions and awareness. Paper presented at the *Belgian Association for Psychological Science* in Louvain-la-Neuve, Belgium.
- 2012** Schmidt, J. R. (2012). The temporal retrieval hypothesis: Learning when (rather than what) to respond explains list-level proportion congruent effects. Paper presented at the joint meeting of the *Belgian Association for Psychological Science* and the *Sociedad Española de Psicología Experimental* in Liège, Belgium.
- 2011** Schmidt, J. R., & De Houwer, J. (2011). Now you see it, now you don't: Controlling for contingencies and stimulus repetitions eliminates the Gratton effect. Paper presented at the *European Society for Cognitive Psychology* in San Sebastian, Spain.
Schmidt, J. R. (2011). Conflict and contingency: The Parallel Episodic Processing (PEP) model. Paper presented at the *Psychology Conference of the Athens Institute for Education and Research* in Athens, Greece.
Schmidt, J. R., & De Houwer, J. (2011). Implicit contingency learning with evaluative stimuli. Paper presented at the *Belgian Association for Psychological Science* in Ghent, Belgium.
- 2009** Schmidt, J. R., De Houwer, J., & Besner, D. (2009). Contingency learning in the blink of an eye: A resource dependent process. Paper presented at the joint meeting of the *Experimental Psychology Society* and the *Canadian Society for Brain, Behaviour, and Cognitive Science* in York, England.
- 2008** Schmidt, J. R., Cheesman, J., & Besner, D. (2008). You can't Stroop a lexical decision: Combating the communication breakdown in cognitive psychology with a general model of semantics. Paper presented at the *Canadian Society for Brain, Behaviour, and Cognitive Science* in London, Canada.
- 2007** Schmidt, J. R., & Besner, D. (2007). The Stroop effect: Why the "proportion congruent" effect has nothing to do with congruency and everything to do with contingency. Poster presented at the *Canadian Society for Brain, Behaviour, and Cognitive Science* in Victoria, Canada.
- 2006** Schmidt, J. R., Crump, M. J. C., Cheesman, J., & Besner, D. (2006). Contingency learning without awareness: Evidence for implicit control. Poster presented at the *Canadian Society for Brain, Behaviour, and Cognitive Science* in Saskatoon, Canada.
- 2005** Schmidt, J. R., & Cheesman, J. (2005). Semantic facilitation, semantic inhibition, and response competition in the Stroop task. Poster presented at the *Banff Annual Seminar in Cognitive Science* in Banff, Canada.

Schmidt, J. R., & Cheesman, J. (2005). Semantic facilitation, semantic inhibition, and response competition in the Stroop task. Paper presented at the *Canadian Society for Brain, Behaviour, and Cognitive Science* in Montreal, Canada.

Qualification

2018 GALAXIE, maître de conférences (France)

Languages

English Native speaker
Dutch CEFR: B2 (upper intermediate)
French CEFR: B1 (intermediate)

Professional Skills

Coding Java, JavaScript, HTML, CSS, R, JQuery, PHP, Visual Basic, Perl, Python, C++, Apache
Programs SPSS, E-Prime, Notepad++, NetBeans, Eclipse, GIMP, Audacity, RStudio, Bitbucket (GIT), Inquisit, JASP, MorePower, Statistica, Blender
Modelling Neural networks, machine learning, statistical modelling, evolutionary algorithms

Web

Department <http://leadserv.u-bourgogne.fr/~jschmidt/>
Google Scholar <https://scholar.google.ca/citations?user=LRKuBQYAAAAJ>
ResearchGate https://www.researchgate.net/profile/James_Schmidt3
ORCID <http://orcid.org/0000-0002-0412-396X>