

Education

Hampshire College, B.A., Philosophy / Cognitive Science (January 2004)

Harvard University Graduate School of Education, Ed.M., Mind, Brain, and Education (June 2006)

Harvard University Graduate School of Education, Doctoral student, Mind, Brain, and Education (August 2006...)

Grants and awards

- April. 2004 Travel Grant, Culture, Brain, and Development Program, Hampshire College
- April. 2006 Scheffler Fellowship, Philosophy of Education, Harvard University Graduate School of Education
- May. 2006 C. M. Peirce Faculty Tribute Fellowship, Harvard University Graduate School of Education
- May. 2006 Intellectual Contribution Award, Harvard University Graduate School of Education
- May. 2008 Presidential Instructional Technologies Fellowship, Harvard Graduate School of Education
- Aug. 2008 Award for best overall research contribution, First Biannual International Integral Theory Conference, John F. Kennedy University. Pleasant Hill, CA.

Employment

- 2002-2003 Research Assistant, *Collaboration for Excellence in Science Education (CESE)*, Hampshire College
- 2004-2005 Research Consultant, *Collaboration for Excellence in Science Education (CESE)*, Hampshire College
- 2003-2006 Research Associate, *Developmental Testing Service* (formerly Sequence Consulting)
- 2006-2007 Teaching Fellow, Harvard University
- 2006-present Senior Analyst, *Developmental Testing Service*
- 2008-present Senior Teaching Fellow, Harvard University
- 2009-present Adjunct Faculty member, Integral Theory Department, John F. Kennedy University.

Professional experience

- June 2003 Workshop co-leader, Mind, Brain, and Education Institute, Harvard Graduate School of Education. Cambridge MA.
- April 2004 Training workshop leader, Hampshire College School of Cognitive Science, Amherst, MA.
- April 2004 *Decision-making Curricular Development Database: Skill map, skill definitions, & activities*. Report presented to the National Security Agency Leadership School.
- Oct. 2004 Invited presenter, *The Millennial Mind Conference*. University of Maryland / NSA
- May 2006 Reviewer, *Developmental Psychology*
- Nov. 2006 Invited workshop, *An introduction to developmental assessment for the classroom*, Learning and the Brain Conference. Boston, MA.

- Feb. 2007 Reviewer, *Mind, Brain, and Education*
- Dec. 2007 Invited presenter and discussion session leader, Neural Information Processing Society, Workshop for the Hierarchical Organization of Behavior. Vancouver, Canada.
- Feb. 2008 Reviewer, *Journal of Integral Theory and Practice*
- June 2008 Workshop co-leader, Mind, Brain, and Education Institute, Harvard Graduate School of Education. Cambridge MA.
- June 2008 Presenter and co-organizer, *Symposium on the contested legacy and continuing relevance of psychological structuralism*. Annual Meeting of the Jean Piaget Society. Quebec City, Canada.
- July 2008 Invited faculty Member, workshop leader, and keynote presenter, Neuroeducation Institute, Montgomery Bell Academy. Nashville KY.
- Aug. 2008 Invited panelist, *Discussion Panel on Developmental Assessment*, Biannual Integral Theory Conference, John F. Kennedy University. Pleasant Hill, CA.
- Aug. 2008 Invited workshop co-leader, Mind, Brain, and Education teaching training and consulting. Long Trail School, Rutland Vt.
- Sept. 2008 Reviewer, *Mind, Brain, and Education*
- Oct. 2008 Invited workshop co-leader. *Leadership development overview*. New Hampshire Air National Guard. Pease International Tradeport. Portsmouth, NH.
- Oct. 2008 Reviewer, *Journal of Integral Theory and Practice*
- Nov. 2008 Invited lecturer, workshop leader, and content provider. Integral Institute and Integral Life. Denver Co.
- Jan. 2009 Invited committee member, admissions committee for Mind, Brain, and Education Ed.M. program. Harvard University Graduate School of Education.
- Feb. 2009 Invited workshop leader and lecturer. University of Texas Arlington, Center for Mind Brain, and Education and PreK-12 Council.
- March 2009 Invited lecturer and workshop leader. Johnson State College, Johnson VT.
- May 2009 Workshop leader and presenter, *Launch of the National Testing Survey*. International Mind, Brain, and education Society Conference. Philadelphia PA.
- June 2009 Invited workshop co-leader, *Making connections between Mind, Brain, and Education*. Sponsored by Learning and the Brain, hosted at Lawrence Academy, Groton, MA.
- June 2009 Workshop co-leader, Mind, Brain, and Education Institute, Harvard Graduate School of Education. Cambridge MA
- 2008-present Editor, Special sections of the journal *Mind Brain and Education*, focused on developmental theory and research

Publications

- Stein, Z., Dawson, T.L., Fischer, K.W. (in press) Redesigning testing: operationalizing the new science of learning. In Khine & Saleh (Eds.) *The new science of learning: computers, cognition, and collaboration education*. Forthcoming from Springer Press.
- Stein, Z. & Fischer, K. (in press). Directions for Mind, Brain, and Education: methods, models, and morality. *Educational Philosophy and Theory*: special issue on educational neuroscience.
- Stein, Z. & Hiekkinen, K (2009). Metrics, models, and measurement in developmental psychology. *Integral Review*. Vol. 5 no. 1.

- Stein, Z. (2009) Re-setting the stage: introduction to special sections on learning sequences and developmental theory. *Mind, Brain, and Education*. Vol. 3, No. 2. 92-93.
- Stein, Z, Connell, M. & Gardner, H. (2008). Thoughts on exercising quality control in interdisciplinary education: toward an epistemologically responsible approach. *Journal of Philosophy of Education*. Vol. 42, No. 3-4.
- Stein, Z. (2008) Myth busting and metric making: Refashioning the discourse about development. Excursus for Integral Leadership Review. *Integral Leadership Review*. Vol 8. No. 5.
- Stein, Z & Hiekkinen, K. (2008). On operationalizing aspects of altitude: an introduction to the Lectical Assessment System for Integral researchers. *Journal of Integral Theory and Practice*. Spring. Vol 3. No 1.
- Stein, Z. (2007). Modeling the demands of interdisciplinarity. *Integral Review*. 4.
- Stein, Z. & Dawson-Tunik, T. L. (2004). The growth of moral relativism: A comparison of moral judgments from the 1960s and 1990s. Published proceedings from the Millennial Mind conference, University of Maryland / NSA, Baltimore, MD.
- Dawson, T. L. & Stein, Z. (2008) Cycles of Research and Application in Science Education. *Mind, Brain, and Education*. Vol 2, 2. 90-103.
- Dawson, T. L., Fischer, K. W., & Stein, Z. (2006). Reconsidering qualitative and quantitative research approaches: A cognitive developmental perspective. *New Ideas in Psychology*, 24, 229-239.
- Dawson-Tunik, T. L., Fischer, K., & Stein, Z. (2004). Do stages belong at the center of developmental theory? A commentary on *Piaget's stages*. *New Ideas in Psychology*, 22, 255-263.
- Fischer, K., Stein, Z., & Hiekkinen, K. (in press). Commentary on the psychology of adolescent maturity and its legal implications. To appear in *American Psychologist*.
- Fischer, K., Stein, Z., Stewart, J. (2008) Process and skill: analyzing structures of growth. In Riffert & Sander (eds.) *Researching with Whitehead: System and Adventure*. Verlag Karl Alber: Munich.

Presentations

- Stein, Z. (2009) *On the evidenced based redesign of our educational assessment infrastructure*. Paper presented at the International Mind, Brain, and Education Society Conference. Philadelphia PA.
- Stein, Z (2009) *Mind, brain, and education: insights from an emerging field*. Talk and workshop for graduate school of education at Johnson Sate College. Johnson VT.
- Stein, Z. (2008) *On measuring minds: models, myths, morality, and usable knowledge about human development*. Paper presented to Integral Institute with web-media content provided to Integral Life. Denver CO.
- Stein, Z. (2008) Intuitions of altitude: researching the conditions for the possibility of developmental assessment. Paper presented at Biannual Integral Theory Conference, John F. Kennedy University. Pleasant Hill, CA.
- Stein, Z. (2008) *An Introduction to Cognitive development: philosophy, psychology, and education*. Keynote Presentation. Neuroeducation Institute, Montgomery Bell Academy. Nashville KY.
- Stein, Z (2008) *On the possibilities of a comprehensive developmental structuralism: the natural, the normal, and the normative*. Paper presented at the Annual Meeting of the Jean Piaget Society. Quebec City, Canada.
- Stein, Z . (2007) *Addressing the American problem by modeling cognitive development*. Paper presented at the Annual Meeting of the Neural Information Processing Society, Workshop for the Hierarchical Organization of Behavior. Vancouver, Canada.

- Stein, Z. (2005). *Individuation through socialization: Habermas on Mead and the rationality we share*. Paper presented at the Annual Meeting of the Jean Piaget Society, Vancouver, Canada
- Stein, Z. (2004). *Philosophy and the human sciences: On the necessity of an interdisciplinary symbiosis*. Paper presented at the Annual Meeting of the Jean Piaget Society. Toronto, Canada.
- Stein, Z. (2004). *Philosophy and the human sciences: On the necessity of an interdisciplinary symbiosis*. Paper presented at the year-ending ceremony of the Culture, Brain and Development Program. Hampshire College, Amherst, MA.
- Stein, Z. & Dawson-Tunik, T. L. (2004). *It's all good: Moral relativism and the millennial mind*. The Millennial Mind Conference, University of Maryland / NSA. Baltimore, MD.
- Dawson, T. L. & Stein, Z. (2008) *Developmental differences in the understanding of integral theory: a statement of the problem and research approach*. Paper presented at Biannual Integral Theory Conference, John F. Kennedy University. Pleasant Hill, CA.
- Dawson, T. L., & Stein, Z. (2004). *Epistemological development: It's all relative*. Paper presented at the Annual Meeting of the Jean Piaget Society. Toronto, Canada.
- Dawson, T. L., & Stein, Z. (2005). *It's all good. Moral relativism and the millennial generation*. Paper presented at the Annual Meeting of the Jean Piaget Society. Vancouver, Canada.

Teaching experience

- Spring 2003 *Psychological Theories of Religion*, Hampshire College. Teaching Assistant.
- Summer 2003 *The Hierarchical Complexity Scoring System*. Workshop presented at the Mind, Brain, and Education Institute, Harvard Graduate School of Education, Cambridge, MA.
- Fall 2004 *Scoring for complexity*. Workshop series presented at the Harvard Graduate School of Education, Cambridge, MA.
- Spring 2004 *Lectica™: A Hierarchical Complexity Scoring System*. Training workshop presented at Hampshire College School of Cognitive Science, Amherst, MA.
- Spring 2005 *It's all relative: Psychological and philosophical perspectives on truth*. Hampshire College. Instructor course designer.
- Fall 2006-08 *Cognitive development, education, and the brain*. Harvard University. Teaching Fellow.
- Spring 2008-09 *Interdisciplinary education: preparing students for our contemporary world*. Harvard University Graduate School of Education. Teaching Fellow.
- Summer 2008 *Mind, Brain, and Education: cognition, emotion, and learning*. 3-day Workshop series presented at Long Trail School, Rutland Vt.
- Summer 2008 *An introduction to cognitive development, developmental assessment, and micro-development*. Workshop series created for and presented at Neuroeducation Institute, Montgomery Bell Academy. Nashville KY.
- Fall 2008 *Cognitive development, education, and the brain*. Harvard University. Head teaching fellow and course designer.
- Fall 2009 *Maturity, human potential, and the higher reaches of human development*. Design and teach course: John F Kennedy University.
- Summer 2009 *Making connections between Mind, Brain, and Education: cognition, emotion, and learning*. 3-day Workshop series presented at Lawrence Academy. Groton, MA.

Research experience

- 2002-2004 Major role in developing methodology for examining the development of specific science concepts and science epistemology in 9th graders and their teachers. Based on findings, work with teachers to design effective interventions and assessments.
- 2002-2004 Major role in developing methodology for examining the development of conceptions of leadership, the self, and reflective judgment in National Security Agency managers. Describe conceptual development along leadership, self, and reflective judgment strands, employ results to construct assessments and curriculum for mission-based leadership training program.
- 2003 Major role in conducting developmental analysis of National Security Agency management level definitions.
- 2003-2004 Major role in conducting pre- and post- assessments of decision-making and epistemological reasoning performances of National Security Agency managers exposed to a commercial decision-making curriculum. Described conceptual changes in the pre and post assessments.
- 2003-2004 Based on the content in ten decision-making texts selected by a group of decision-making experts, developed a map of the decision-making skill domain, described 3 developmental levels for each major skill, and tied each level of each skill to an activity or teaching point from one or more of the texts. Presented results to National Security Agency Leadership School.
- 2004-2008 Work with federal government intelligence agencies to define developmentally informed levels of competence for information analysts.
- 2005 Work with Harvard Graduate School of Education to produce and present a map representing a conceptual overview of Mind, Brain, and Education knowledge domain.
- 2008-2009 Work with Harvard Graduate School of Education under Presidential Instructional Technologies Fellowship to produce learning sequences in the domain of Mind, Brain, and Education and design developmental assessment based on these learning sequences to be used in studying the effects of the masters program on student conceptual development.
- 2009 Work with Mike Hogan (Galway University, Ireland) and the Developmental Testing Service in researching graduate student development in a critical thinking course, based on Reflective Judgment Assessment. Help to design coding interface for tracking epistemological differences and analyze student essay data.
- 2008-present Work with University of Texas Arlington, Dallas Fort worth Public Schools, and DiscoTest Initiative to research and design developmental assessment for use in K-12 science education.
- 2009-present Work with John F. Kennedy University and the Developmental Testing Service to study graduate student development, produce learning sequences about Integral Theory, and design related developmental assessments.

Reports

- Dawson, T. L., & Stein, Z. (2004). *Decision-making curricular development database: Skill map, skill definitions, & activities*. Hatfield, MA: Developmental Testing Service, LLC.
- Dawson, T. L., & Stein, Z. (2004). *Critical thinking seminar pre and post assessment results*. Hatfield, MA: Developmental Testing Service, LLC.
- Dawson, T. L., & Stein, Z. (2004). *National Leadership Study results*. Hatfield, MA: Developmental Testing Service, LLC.
- Dawson, T. L., & Stein, Z. (2004). *National Decision-Making Curriculum: A framework*. Hatfield, MA:

Developmental Testing Service, LLC.

Dawson, T. L., & Stein, Z. (2004). *It's all good: Moral relativism and the millennial mind*. Paper presented at the The Millennial Mind, Baltimore, MD.

Dawson, T. L., & Stein, Z. (2005). *A comparison of the content of the interviews of 30 lesbian and 30 traditional parents*. Northampton, MA: The Developmental Testing Service, LLC.

Dawson, T. L., & Stein, Z. (2005). *Leadership standards (Report for the IC working group drafting leadership standards)*. Northampton, MA: Developmental Testing Service, LLC.

Dawson, T. L., & Stein, Z. (2005). *Analyst standards (Report for the IC working group drafting analyst standards)*. Northampton, MA: Developmental Testing Service, LLC.

Dawson, T. L., & Stein, Z. (2005). *Reasoning about morality in sons of lesbian and traditional parents: A developmental analysis*. Northampton, MA: The Developmental Testing Service, LLC.

Dawson, T. L., & Stein, Z. (2006). *Decision-making curriculum. Results of the pre- and post-instruction developmental assessments*. Northampton, MA: Developmental Testing Service.

Dawson, T. L., & Stein, Z. (2006). *Leadership preferences, environment preferences, and motivators of GenY employees*. Northampton, MA: Developmental Testing Service, LLC.

Stein, Z., & Hiekkinen, K. (2008) *Learning about learning about learning: the HT-100 research initiative*. Harvard University Graduate School of Education. Cambridge, MA.