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#### Keywords

- academic motivation
- autonomy
- person-centered research
- science education
- cluster analysis

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- Sociology of education 0340
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- Vocational education 0747
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- Asian history 0332
- Black history 0328
- Canadian history 0334
- European history 0335
- History 0578
- History of Oceania 0504
- History of science 0585
- Latin American history 0336
- Medieval history 0581
- Middle Eastern history 0333
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- Asian literature 0305
- Canadian literature 0352
- Caribbean literature 0360
- Classical literature 0294
- Comparative literature 0295
- English literature 0593
- French Canadian literature 0355
- Germanic literature 0311
- Icelandic & Scandinavian literature 0362
- Language 0679
- Latin American literature 0312
- Linguistics 0290
- Literature 0401
- Literature of Oceania 0356
- Medieval literature 0297
- Middle Eastern literature 0315
- Modern language 0291
- Modern literature 0298
- Rhetoric 0681
- Romance literature 0313
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- International law 0616
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- Economic theory 0511
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- Economics, Commerce-Business 0505
- Economics, Labor 0510
- Folklore 0358
- Forensic anthropology 0339
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- Labor relations 0629
- Military studies 0750
- Organization theory 0635
- Organizational behavior 0703
- Peace studies 0563
- Physical anthropology 0327
- Political Science 0615
- Public administration 0617
- Public policy 0630
- Recreation and tourism 0814
- Social research 0344
- Social structure 0700
- Social work 0452
- Sociolinguistics 0636
- Sociology 0626
- Transportation planning 0709
- Urban planning 0999

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- Biblical studies 0321
- Canon law 0375
- Clerical studies 0319
- Comparative religion 0618
- Divinity 0376
- Epistemology 0393
- Ethics 0394
- Logic 0395
- Metaphysics 0396
- Pastoral counseling 0397
- Philosophy 0422
- Philosophy of Religion 0322
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- Spirituality 0647
- Theology 0469

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- Textile research 0994
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- Agriculture economics 0503
- Agronomy 0285
- Animal diseases 0476
- Animal sciences 0475
- Fisheries and aquatic sciences 0792
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- Plant sciences 0479
- Range management 0777
- Soil sciences 0481
- Urban forestry 0281
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## ARCHITECTURE
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- Architectural engineering 0462
- Landscape architecture 0390

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- Counseling psychology 0603
- Developmental psychology 0620
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- Quantitative psychology and psychometrics 0632
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- Biostatistics 0308
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- Evolution & development 0412
- Genetics 0369
- Histology 0414
- Limnology 0793
- Microbiology 0410
- Molecular biology 0307
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- Virology 0720
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- Macroecology 0420
- Paleocology 0426

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- Artificial intelligence 0800
- Automotive engineering 0540
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- Civil engineering 0543
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- Naval engineering 0468
- Nanotechnology 0652
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- Materials Science 0794

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- Oncology 0992
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Integrative Perspectives of Academic Motivation

Jessica Rebecca Chittum

Dissertation submitted to the faculty of the Virginia Polytechnic Institute and State University in partial fulfillment of the requirements for the degree of

Doctor of Philosophy

In

Curriculum and Instruction

with a specialization in Educational Psychology

Brett D. Jones, Committee Chair
Peter E. Doolittle
Kathryne D. McConnell
Jesse L. Wilkins

February 10, 2015
Blacksburg, VA

Keywords: academic motivation, autonomy, cluster analysis, person-centered research, science education

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Integrative Perspectives of Academic Motivation

Jessica Rebecca Chittum

ABSTRACT

My overall objective in this dissertation was to develop more integrative perspectives of several aspects of academic motivation. Rarely have researchers and theorists examined a more comprehensive model of academic motivation that pools multiple constructs that interact in a complex and dynamic fashion (Kaplan, Katz, & Flum, 2012; Turner, Christensen, Kackar-Cam, Trucano, & Fulmer, 2014). The more common trend in motivation research and theory has been to identify and explain only a few motivation constructs and their linear relationships rather than examine complex relationships involving “continuously emerging systems of dynamically interrelated components” (Kaplan et al., 2014, para. 4). In this dissertation, my co-author and I focused on a more integrative perspective of academic motivation by first reviewing varying characterizations of one motivation construct (Manuscript 1) and then empirically testing dynamic interactions among multiple motivation constructs using a person-centered methodological approach (Manuscript 2). Within the first manuscript (Chapter 2), a theoretical review paper, we summarized multiple perspectives of the need for autonomy and similar constructs in academic motivation, primarily autonomy in self-determination theory, autonomy supports, and choice. We provided an integrative review and extrapolated practical teaching implications. We concluded with recommendations for researchers and instructors, including a call for more integrated perspectives of academic motivation and autonomy that focus on complex and dynamic patterns in individuals’ motivational beliefs. Within the second manuscript (Chapter 3), we empirically investigated students’ motivation in science class as a complex, dynamic, and context-bound phenomenon that incorporates multiple motivation constructs. Following a person-centered approach, we completed cluster analyses of students’ perceptions of 5 well-known motivation constructs (autonomy, utility value, expectancy, interest, and caring) in science class to determine whether or not the students grouped into meaningful “motivation profiles.” 5 stable profiles emerged: (1) low motivation; (2) low value and high support; (3) somewhat high motivation; (4) somewhat high empowerment and values, and high support; and (5) high motivation. As this study serves as a proof of concept, we concluded by describing the 5 clusters. Together, these studies represent a focus on more integrative and person-centered approaches to studying and understanding academic motivation.