

CURRICULUM VITAE

Sy-Miin Chow

June 2011

PERSONAL INFORMATION

Address:

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University of North Carolina,
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EDUCATION

Ph.D., Quantitative Psychology, August, 2004

University of Virginia, Charlottesville, VA (*Advisor: John R. Nesselroade*)

Dissertation topic: Fitting Linear and Nonlinear Dynamic Models Using
Different Kalman Filter Approaches.

M.A., Quantitative Psychology, Dec 2001

University of Virginia, Charlottesville, VA (*Advisor: John R. Nesselroade*)

Thesis topic: The Use of Differential Equations and Their Empirical Validity in
Modeling Continuous Human Adaptive Processes

B.S., Psychology, Summa Cum Laude, Dec 1998

Drexel University, Philadelphia, PA

PROFESSIONAL EXPERIENCE

2007—present	Assistant Professor, Department of Psychology, University of North Carolina
2005—2007	Assistant Professor, Department of Psychology, University of Notre Dame
2005—2006	Visiting scientist, Max Planck Institute for Human Development, Berlin, Germany
2004—2005	Assistant Research Professor, Department of Psychology, University of Notre Dame
1999—2004	Graduate student and research assistant, Institute for Developmental & Health Research Methodology, University of Virginia
2000—2004	Teaching assistant, Department of Psychology, University of Virginia

HONORS & AWARDS

2005—2006	Humboldt Research fellow awarded by the Alexander von Humboldt Foundation, Germany
2004	Dissertation Award from the Society of Multivariate Experimental Psychology (SMEP)
2001	Student travel award from the Society of Multivariate Experimental Psychology (SMEP) to attend the Notre Dame Series on Quantitative Methodology.
2000—2003	Teaching fellowship, University of Virginia
1999—2003	Presidential Fellowship, University of Virginia
1999	Santa Fe Institute student scholarship to attend Complex Systems Summer School organized by the Santa Fe Institute
1995—1997	Distinction Award, HELP Institute (in Malaysia)
1997—1998	Anthony J. Drexel Scholarship, Drexel University

PUBLICATIONS

* Research in collaboration with graduate students.

** Research in collaboration with undergraduate students.

Refereed Articles

*Losardo, D., **Chow, S-M.**, Panter, A. T., Burkley, M. & Burkley, E. (under review). Daily diary designs with planned missingness.

Chow, S-M., Zhu, H. & Sherwood, A. (under review) Fitting nonlinear differential equation models with random effects using the stochastic approximation expectation-maximization algorithm.

Song, X.-Y., Tang, N.-S., **Chow, S-M.** (under review). Bayesian approach for generalized random coefficient structural equation models for longitudinal data with adjacent time effects. *British Journal of Mathematical and Statistical Psychology*.

Chow, S-M., Ong, A.D., *Hutton, S., **Newell, S. M. & *Yang, M. (under review). Individual differences in the dynamics of facial electromyography (EMG) data. Submitted to *Emotion* April 2011.

Zhang, G., Browne, W. M., Ong, A. D., & **Chow, S-M.** (under review). Analytic standard errors for exploratory process factor analysis. *Psychometrika*.

*Guo, R., Zhu, H., **Chow, S-M.**, & Ibrahim, J. G. (revised and resubmitted). Bayesian Lasso for semiparametric structural equation models. *Biometrics*.

Chow, S-M., *Zu, J., Shifren, K. & Zhang, G. (2011). Dynamic factor analysis models with time-varying parameters. *Multivariate Behavioral Research*, 46(2), 303-339.

Zhang, G., **Chow, S-M.** & Ong, A. D. (2011). A sandwich-type standard error estimator of SEM models with a single time series. *Psychometrika*, 76 (1), 77-96.

Chow, S-M., Tang, N., *Yuan, Y., Song, X & Zhu, H. (2011). Bayesian estimation of semiparametric dynamic latent variable models using the Dirichlet process prior. *British Journal of Mathematical and Statistical Psychology*, 64(1), 69-106.

*Yang, M-S. & **Chow, S-M.** (2010). Using state-space models with regime switching to represent the dynamics of facial electromyography (EMG) data. *Psychometrika*, 74(4), 744-771

Hsieh, F., Ferrer, E., Chen, Shu-Chun & **Chow, S-M.** (2010). Dynamics of dyadic interactions I: Exploring non-stationarity of intra- and inter-individual affective processes via hierarchical segmentation and stochastic small-world networks. *Psychometrika*, 75(2), 351-372.

*Schermerhorn, A. C., **Chow, S-M.** & Cummings, E. M. (2010). Developmental family

- processes and interparental conflict: Patterns of micro-level influences. *Developmental Psychology*, 46(4), 869-885.
- Chow, S-M.**, Haltigan, J. D. & Messinger, D. S. (2010). Dynamic patterns of infant-parent interactions during Face-to-Face and Still-Face episodes. *Emotion*, 10(1), 101-114.
- Chow, S-M.**, Ho, M. H. R., Hamaker, E. & Dolan, C. (2010). Equivalence and differences between structural equation modeling and state—space modeling techniques. *Structural Equation Modeling*, 17, 303-332.
- Chow, S-M.**, Hamaker, E. & Allaire, J. C. (2009). Using innovative outliers to detect discrete shifts in dynamics in group-based state-space models. *Multivariate Behavioral Research*, 44, 465-496.
- Chow, S-M.**, Hamaker, E., Fujita, F., & Boker, S. M. (2009). Representing time-varying cyclic dynamics using multiple-subject state-space models. *British Journal of Mathematical and Statistical Psychology*, 62, 683-712.
- Messinger, D.S., Mahoor, M. H., **Chow, S-M.**, & Cohn, J. F. (2009). Automated measurement of facial expression in infant-mother interaction: A pilot study. *Infancy*. 14(3), 285-305.
- Chow, S-M.** & Zhang, G. (2008). Continuous-time modeling of irregularly spaced panel data using a cubic spline interpolation technique. Special issue on “Continuous-time modeling of panel data” coedited by J. H. L. Oud & H. Singer. *Statistica Neerlandica* 61(1), 131-154.
- Chow, S-M.**, Hamagami, F & Nesselroade, J. R (2007). Age differences in dynamical emotion-cognition linkages. *Psychology and Aging*, 22(4), 765-780.
- Chow, S-M.**, Ferrer, E. & Nesselroade J. R. (2007). An unscented Kalman filter approach to the estimation of nonlinear dynamical systems models. *Multivariate Behavioral Research*, 42(2), 283-321.
- Chow, S-M.** & *Tiberio, S. S. (2007). Discussion on Ramsey et al.’s paper, “Parameter estimation for differential equations: A generalized smoothing approach”. *Journal of the Royal Statistical Society: Series B*.
- Ram, N., **Chow, S-M.**, Bowles, R. P., Wang, L., Grimm, K. J., Fujita, F. & Nesselroade, J. R (2005). Examining interindividual differences in cyclicity of pleasant and unpleasant affects using spectral analysis and item response modeling. *Psychometrika: Application Reviews and Case Studies*, 70, 773-790.
- Chow, S-M.**, Ram, N., Boker, S. M., Fujita, F. Clore, G. (2005). Emotion as a thermostat: Representing emotion regulation using a damped oscillator model. *Emotion*. 5(2), 208-225.
- Chow, S-M.**, Nesselroade, J. R., Shifren, K. & McArdle J. J. (2004). Dynamic structure of

emotions among individuals with Parkinson's disease. *Structural Equation Modeling*, 11(4), 560-582.

Chow, S-M. & Nesselroade, J. R. (2004) General slowing or decreased inhibition? Mathematical models of age differences in cognitive functioning. *Journals of Gerontology: Psychological Sciences*, 59B(3), 101-109.

Walpole, S., **Chow, S-M.** & Justice, L. (2004). Literacy achievement during kindergarten: Identifying key contributors in an at-risk sample. *Early Education and Child Development*, 15(3), 245-264.

Justice, L., **Chow, S.**, Michel, C. & Flanigan, K. (2003). Investigation of two emergent literacy enhancement approaches for vulnerable preschoolers. *American Journal of Speech-Language Pathology*, 12, 1-14.

Chow, S. & Nesselroade, J. R. (2002). Age differences in transitory cognitive performance. In W. Gray & C. Schunn (Eds.), *Proceedings of the Twenty-Fourth Annual Conference of the Cognitive Science Society*, 196-201.

Manuscripts in preparation

Chow, S-M, *Filteau, G., McArdle, J. J. & Dolan C. Multivariate latent difference score models with regime switching.

Chow, S-M, & *Hutton, S. Nonlinear regime-switching state-space models.

*Losardo, D. & **Chow S-M.** Interpolating irregularly spaced ecological assessments using the cubic spline model.

Book

Chow, S-M., Ferrer, E., & Hsieh, F. (Eds.) (2009). *Statistical methods for modeling human dynamics: An interdisciplinary dialogue*. Notre Dame Series on Quantitative Methodology (Vol. 4). New York, NY: Taylor & Francis.

Book Chapters

Algoe, S. B., Fredrickson, B. L., & **Chow, S-M.** (in press). The future of emotions research within positive psychology. In K. Sheldon, T. Kashdan, and M. Steger (Eds.) *Designing the future of positive psychology: Taking stock and moving forward*. New York: Oxford University Press.

Chow, S-M. & Nesselroade, J. R. (in press). General slowing or decreased inhibition? Mathematical models of age differences in cognitive functioning. (Reprinted from original article published in the *Journals of Gerontology: Psychological Sciences*, 59B(3), 101-109). R. Rabbit (Ed.) *Major Works in Cognitive Gerontology*. Routledge.

Chow, S-M. & *Filteau, G. (2010). A State-space approach to representing discontinuous shifts in change processes. In P. C. M. Molenaar & K. M. Newell

- (Eds.) *Individual Pathways of Change in Learning and Development* (pp. 87-108). Washington, D.C.: American Psychological Association.
- Zhang, G. & **Chow, S-M.** (2010). Standard error estimation in stationary multivariate time series models using residual-based bootstrap procedures. In P. C. M. Molenaar & K. M. Newell (Eds.) *Individual Pathways of Change in Learning and Development*. Washington, D.C.: American Psychological Association.
- Ferrer, E., Chen, S-C., **Chow, S-M.** & Hsieh F. (2009). Exploring intra- and inter individual dynamics in dyadic interactions through hierarchical factor segmentation. In Chow, S-M., Ferrer, E., & Hsieh, F. (Eds.), *Statistical methods for modeling human dynamics: An interdisciplinary dialogue*. Taylor & Francis.
- Ong, A. D., Bergeman, C. S., & **Chow, S-M.** (2009). Positive emotions as a basic building block of resilience in later life. In J. Reich, A. Zautra, and J. Hall (Eds.). *Handbook of adult resilience: Concepts, methods, and applications*. New York: Guilford Press.
- Chow, S-M.**, Grimm, K. J. Fujita, F. & Ram, N (2007). Exploring cyclic change in emotion using item response models and frequency-domain analysis In A. Ong & M. van Dulmen (Eds.), *Handbook of Methods in Positive Psychology* (pp. 362-379). Oxford University Press.
- Chow, S-M** (2007). Factor score and parameter estimation in nonlinear dynamical systems models. In K. van Montfort, H. Oud & A. Satorra.(Eds.), *European Association of Methodology (EAM) Methodology and Statistics series (2nd Vol.): Longitudinal models in the behavioral and related sciences* (pp. 107-138). Lawrence Erlbaum.
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TEACHING EXPERIENCE

University of North Carolina

Undergraduate teaching

- Statistical Principles in Psychological Research (PSYC 210)
 - Spring 2008, Fall 2008.
- Statistical Principles in Psychological Research, Calculus-Based (PSYC 215)
 - Fall 2009.

Graduate teaching

- Advanced Longitudinal Data Analysis (PSYC 859)
 - Spring 2009, Spring 2011
- Statistical Methods in Psychology I (PSYC 281/830)
 - Fall 2007, Fall 2009, Fall 2010

University of Notre Dame

Undergraduate teaching

- Experimental Statistics I (PSYC341)
 - Spring 2006, Fall 2006, Spring 2007

Graduate teaching

- Advanced Longitudinal Data Analysis (PSYC60156)
 - Spring 2006, Spring 2011
 - Quantitative Methods I (PSYC531)
 - Fall 2006, Fall 2008, Fall 2009, Fall 2010
 - Dynamical Systems Analysis of Psychological Data
 - Spring 2007
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MENTORING AND ADVISING**University of North Carolina**

Current graduate students:

- Shane Hutton
- Diane Losardo

Member, Dissertation/master's thesis committee:

- R.J. Wirth, Dissertation committee (department of Psychology)
- Joseph Simons, Dissertation committee (department of Psychology)
- Bethany Kok, Dissertation committee (department of Psychology)
- Zhaowei Hua, Dissertation committee (department of Biostatistics)

University of Notre Dame

Former graduate students:

- Ji-Yun Zu (Chair: master's committee)
- Manshu Yang (Chair: master's committee)
- Stacey Tiberio (Chair: dissertation committee)

Member, Dissertation/master's thesis committee:

- Wei Zhang, dissertation committee
 - Kathleen Ashenfelter, dissertation committee.
 - Mignon Montpetit, dissertation committee.
 - Naomi Ekas, master's thesis committee.
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GRANT SUPPORT**External****Pending:**

Dynamic Methods for Studying Intraindividual Changes in Alcohol Use (R01). Role: PI. National Institute on Alcohol Abuse and Alcoholism. 12/1/2011-11/31/2016.

Promoting Healthy Midlife Lifestyle Change through Positive Emotions (R01). Role: Co-investigator. PI: Barbara Fredrickson. National Institute on Aging. 2012-2015.

Dynamic Modeling of Alcohol Use Disorder Clinical Course (R01). Role: Co-investigator. PIs: Stephen A. Maisto & Katie Witkiewitz. National Institute on Alcohol Abuse and Alcoholism. 2012-2015.

Funded:

DHB Collaborative Research: Developing Non-Stationary and Network-based Methods for Modeling the Perception and Physiology of Emotion (Human Social Dynamics program). Role: PI. National Science Foundation. 8/1/2008-7/31/2011, \$720,070 (with UC Davis). Total costs for UNC: \$609,545. Funded.

Affective and Genomic Mediators of Sustained Behavior Change (R01NR012899-01). Role: Co-Investigator. PI: Barbara Fredrickson. 2010-2012. National Institute of Nursing Research.

Selective Attention and Control Mechanisms in the Brain (R01). Role: Co-Investigator. PI: Joseph Hopfinger. National Institute of Mental Health. 05/05/2009-04/30/2011. \$853,071.

Notre Dame Study of Resiliency in Later Life. Role: Co-Investigator. PI: C. S. Bergeman. National Institute on Aging. 10/2005 – 9/2009. \$1,250,000.

Naive Observers' Ratings of Behavior: A Multi-Construct Validation Study. Role: Consultant. PI: Daniel Messinger. National Institute of Child Health and Human Development. 2007-2009. (R21HD052062, \$275,000).

Internal

Modeling emotion as “chaotic thermostat”. S.-M. Chow PI, University Research Council, University of North Carolina; Feb, 2008 –February, 2009. \$4,950. Funded.

Modeling emotion as “chaotic thermostat”: pilot study of intra-person dynamics. S.-M. Chow PI, Institute for Scholarship in the Liberal Arts (ISLA), University of Notre Dame; February, 2005 –February, 2006. \$10,925. Funded.

Age differences in emotion regulation and complex skill acquisition. S.- M. Chow PI, Office of Graduate Research, University of Notre Dame; April, 2005—August, 2006. \$10,000. Funded.

Integrated physiological/multi-model laboratory equipment renewal proposal. Role: PI. The Institute of Scholarship in the Liberal Arts, University of Notre Dame in Oct, 2006. \$110,000. Funded.

PROFESSIONAL SERVICES

CONSULTING EDITOR

Psychological Methods (2010-present)

AD HOC REVIEWER

Multivariate Behavioral Research

British Journal of Mathematical and Statistical Psychology

Psychometrika

Psychological Methods

Psychology and Aging

IEEE Transactions on Signal Processing

IEEE Conference on Industrial Electronics and Applications

Infant and Child Development

Journal of Abnormal Psychology

Statistics and Its Interface

GRANT REVIEW

National Science Foundation.

PROFESSIONAL COMMITTEE ACTIVITIES

2006-2007 Chair, Notre Dame Series on Quantitative Methodologies, University of Notre Dame. Conference title: Advances in state-space modeling Techniques (co-organized with Guangjian Zhang).

2007-present Organization committee of the 2007-2009 International and Annual Meetings of the Psychometric Society (IMPS).

DEPARTMENTAL COMMITTEE ACTIVITIES

University of North Carolina

Fall 2009-present Organizer, quantitative psychology forum

Fall 2008-present Faculty advisor of *Zeta*, quantitative psychology student organization

University of Notre Dame

2006—2007	Member, quantitative search committee
2006—2007	Member, data manager search committee
2006—2007	Member, space and security committee
2004—2007	Member, colloquium committee

PROFESSIONAL MEMBERSHIPS

Gerontology society of America
 Psychometric society
 American Psychological Association
 American Statistical Association.

CONFERENCE PRESENTATIONS

- *Losardo, D., **Chow, S-M.**, Panter, A. T., Burkley, M. & Burkley, E. Optimal designs for daily diary studies: Do we really need all of those time points? Poster presented at the Annual Psychometric Society Conference, Athens, GA.
- Chow, S.-M., Tang, N., Yuan, Y., Song, X & Zhu, H. (July, 2009). Bayesian estimation of semiparametric dynamic latent variable models using the Dirichlet process prior. Talk presented at the Annual Psychometric Society Conference, Cambridge UK.
- Chow, S-M., Allaire, J. C., Hamaker, E. & Marsiske, M. (July, 2008). Examining individual shifts in learning dynamics in group-based state-space Models. Talk presented at the Annual Psychometric Society Conference, New Hampshire, MA.
- *Yang, M., & Chow, S-M. (July, 2008). Using State-Space Models with Regime Switching to Represent the Dynamics of Facial EMG Data. Talk presented at the Annual Psychometric Society Conference, New Hampshire, MA.
- *Zu, J., & Chow, S-M. (July, 2008). Examining Dynamic Factor Models with Time-Varying Parameters. Talk presented at the Annual Psychometric Society Conference, New Hampshire, MA.
- Chow, S.-M., Bauer, C., Spies, J. R., Li, S.-C., Lindenberger, U. & Baltes, P. B. (Aug, 2006). Predicting optimal pathways to cognitive aging: Agent-based modeling of selection, optimization, and compensation dynamics. Talk presented at the Annual convention of the American Psychological Association, New Orleans, LA.
- *Zu, J., Chow, S-M., Boker, S-M. (May, 2006). A mathematical model of phase transitions in human affect. Poster presented at the Annual Convention of the Midwestern Psychology Association, Chicago, IL.

- Ong, A. D., Chow, S. M., Bergeman, C. S., & Fujita, F. (May, 2006). Positive emotions as a resource for shame-prone individuals. Paper presented at the Annual Meeting of the Midwestern Psychological Association, Chicago, IL.
- *Chow, S.-M., Spies, J. R., Bauer, C., Li, S.-C., Lindenberger, U. & Baltes, P. B. (April 2006). An agent-based mathematical modeling approach to the theory of selection, optimization and compensation. Poster presented at the 2006 Cognitive Aging Conference, Atlanta, GA.
- Chow, S-M., Ferrer, E. & Nesselrode, J. R. (November, 2005). Using nonlinear dynamical systems models to represent changes in affective dynamics: A dyadic interaction example. Symposium titled "The dynamics of aging: Tools for the new frontier" convened by Ram, N. & Nesselrode, J. R. at the annual scientific meeting of the Gerontology Society of America, Orlando, FL
- Ong, A. D., & Chow, S. M., Fujita, F., & Bergeman, C. S. (August, 2005). Examining the dynamic linkages between positive affect and negative affect using a coupled oscillators model. Paper presented at the 17th Annual Convention of the American Psychological Society, Los Angeles, CA: May 28.
- *Chow, S-M., Boker, S-M., Zu, J. & Fujita, F. (July, 2005). Representing the circumplex structure of emotions using dynamical systems models. Poster presented at the XXV European Dynamics Days, Berlin, Germany.
- Daniel S. Messinger, Sy-Miin Chow, Seth Koterba, Changbo Hu, J.D. Haltigan, Jeffrey Cohn (July, 2005). Smile and Emotion Dynamics in Infant Mother Interaction. Symposium titled "New insights into the expression of positive emotion in infancy and adulthood" convened by Messinger D. & Fogel A. at the annual meeting of the International Society for Research on Emotion, Bari, Italy.
- Chow, S-M., Hamaker, E. J. & Dolan, C. (June, 2005). Representing developmental and psychological processes using structural equation models and state-space models: Recent progress and unresolved issues. Paper presented at the 70th Psychometric Society Conference, Tilburg, the Netherlands.
- *Zu, J., Chow, S-M. & Boker, S. M. (June, 2005). The Effect of Number of Fourier Series Component on Power and Accuracy to Test Circumplex Structure. Paper presented at the North American Association for Computational Social and Organizational Science, Notre Dame, Indiana.
- Messinger, D.S., Gaby, J., Haltigan, J. D., Chow, S. M., Koterba, S.Hu, C., Venezia, M., Hamilton, L., Cohn, J. F. (2005, April). Interactive Influence in Mutual Smiling. Paper presented at the Society for Research in Child Development. Atlanta, GA.

- Ong, A. D., Chow, S-M., Fujita, F. & Bergeman, C.S. (May, 2005). Examining the dynamic linkages between positive affect and negative affect using a coupled oscillators model. Hot topic presented at the 2005 American Psychology Society Conference, Los Angeles, CA.
- Chow, S-M. & Nesselroade, J. R. (November, 2004). Modeling intraindividual variability as a dynamic process. Symposium titled "Methodological approaches to the study of intraindividual variability" convened by Ram, N. & Nesselroade, J. R. at the annual scientific meeting of the Gerontology Society of America, Washington, D.C.
- Chow, S-M. & Nesselroade, J. R. (June, 2004). A Monte Carlo comparison of methods for fitting nonlinear dynamic Models. Paper presented at the 2004 Psychometric Society Conference, Pacific Grove, CA.
- Ram, N., Chow, S-M., Grimm, K. J., Fujita, F. & Nesselroade, J. R. (June, 2004). Examining the dynamics of pleasant and unpleasant emotions using spectral analysis and the Rating Scale model. Paper presented at the 2004 Psychometric Society Conference, Pacific Grove, CA.
- Kline, T. L., Bowles, R. P., Chow, S-M, Schmidt, K. M. & Berry, J. (April, 2004). The Metamemory in Adulthood Scale: A rating scale analysis. Poster presented at the 2004 Cognitive Aging Conference, Atlanta, GA.
- Bowles, R. P., Kline, T. L., Chow, S-M., Berry, J., & Schmidt, K. M. (2004, April). An item factor analysis of the Metamemory in Adulthood (MIA) instrument. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
- Chow, S-M. & Nesselroade, J. R. (April, 2004). General slowing or decreased inhibition? Mathematical models of age differences in cognitive functioning. Poster presented at the 2004 Cognitive Aging Conference, Atlanta, GA.
- Chow, S-M, Kline, T. L., Bowles, R. P., Berry, J. & Schmidt, K. M. (April, 2004) Factorial invariance of the Metamemory in Adulthood Questionnaire. Poster presented at the 2004 Cognitive Aging Conference, Atlanta, GA.
- Ram, N., Chow, S. & Fujita, F. (January, 2004). Dynamical modeling of emotion: stable daily and weekly patterns in seemingly random changes. Poster presented at the 2004 Society for Personality and Social Psychology Conference, Austin, TX.
- Chow, S., Nesselroade, J. R. & Schmidt, K. M. (August, 2002). Age differences in task-switching patterns. Poster presented at the American Psychological Association Annual Convention, Chicago, IL.
- Chow, S. & Nesselroade, J. R. (August, 2002). Age differences in transitory cognitive performance. Poster presented at the Cognitive Science Society Annual Meeting, Fairfax, VA.
- Chow, S., Nesselroade, J. R. & Shifren, K. (June, 2002). Mood fluctuations in

- individuals with Parkinson's disease. Paper presented at the Psychometric Society Annual Meeting, Chapel Hill, NC.
- Justice, L., Capellini, C., Colton, S., Flanigan, K., Chow, S. (March, 2002). Emergent literacy in preschool children: Intervention suggestions. Paper presented at the Speech-Language-Hearing Association of Virginia Annual Conference, Charlottesville, VA.
- Chow, S., (April, 2001). Modeling synthetic work performance from a structural modeling approach. Paper presented at the 2001 Spring Convention of Virginia Psychological Association, Roanoke, VA.
- Chow, S., (June, 2000). An agent-based model of human synthetic performance. Student paper presented at the Summer 2000 Complex Systems Summer School, Santa Fe, NM.
- Hillary, Frank G., Miin, Sy, Moelter, S., Chute, D. L., (November, 1999). Predictors of vocational functioning after traumatic brain injury. Poster presented at the 19th annual meeting of the National Academy of Neuropsychology, San Antonio, TX., [Abstract published in Archives of Clinical Neuropsychology, 14 (8), 792.]
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WOKRSHOP, INVITED COLLOQUIA & ADDRESSES

- Chow., S-M. (Oct, 2010). Dynamic models with time-varying parameters. Invited talk presented at the Paul B. Baltes Symposium in honor of John R. Nesselroade.
- Chow, S-M. (April 2010). Workshop on Longitudinal Data Analysis, Nanyang Technological University, Singapore
- Chow, S-M. (July 2007). State-space modeling of cyclic dynamics. Invited talk presented at the Workshop on Statistical Methods for Modeling Dynamic Systems, McGill University, Montreal.
- Chow, S-M. (May 2007). State-space models of intraindividual change. Invited talk presented at Michigan State University.
- Chow, S-M. (July 2006). Introduction to time series and state-space modeling techniques. Life seminar presented at the Max Planck Institute for Human Development.
- Chow, S-M. (June 2006). Fitting nonlinear dynamical systems models using state-space modeling techniques. Invited talk presented at the 71th Psychometric Society Conference, Montreal, Canada.
- Chow, S-M. (Nov, 2005). Nonlinear Kalman filter approaches to the estimation of

- dynamical systems models. University of California, Davis.
- Chow, S.-M. & Spies, J. R. (June, 2005). An agent-based approach to modeling changes in developmental landscape. Workshop given at the Max Planck Institute for Human Development to members of the Center for Lifespan Psychology and other universities in Berlin.
- Chow, S.-M. (February, 2004). Differential Equation Models of age differences in emotion and cognitive functioning. Max Planck Institute for Human Development.
- Chow, S.-M. (Jan, 2004). Modeling emotion and cognition as self-regulatory processes using differential equations. University of North Carolina, Chapel Hill.
- Chow, S.-M. (January, 2004). Modeling Emotion and Cognition as Self-Regulatory Processes Using Differential Equation Models. University of Western Ontario.
- Chow, S.-M. (January, 2004). Differential Equation Models of Age Differences in Cognitive Functioning. University of Victoria.
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CONSULTING EXPERIENCE

Statistical consultant (8/2005-9/2009)

Notre Dame Study of Resiliency in Later Life

Funding: National Institute of Health

PI: C.S. Bergeman, Ph.D.

Statistical consultant (9/2006-8/2007)

Notre Dame Study of Resiliency in Later Life: Supplemental grant

Funding: National Institute of Health

PI: C.S. Bergeman, Ph.D.

Statistical consultant (11/2004-8/2005)

Automated Measurement of Infant Facial Expressions

Funding: National Science of Foundation

PI: Daniel S. Messinger, Ph. D.

Statistical consultant (9/2003—6/2004)

Development of Autonomy and Relatedness in Peer Relationships, University of Virginia

Funding: National Institute of Mental Health

PI: Joseph P. Allen, Ph.D.

Statistical consultant (6/2003—12/2003)

A Longitudinal Assessment of Interracial Interactions, Princeton University

Funding: National Institute of Mental Health

PI: Nicole Shelton, Ph.D.