

CURRICULUM VITA  
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A.B. Political Science, University of Chicago, 1969 (general honors, thesis in economics).

Ph.D. Political Science, University of Minnesota, 1972.

**Research Agendas**

*Data Drag Project*

Court cases, including concurrences and dissents, reference a number of other SCOTUS decisions, national and state legal codes, state and lower federal court decisions, Constitutional-era documents, academic articles, and much more. A fully automated information system would permit virtual access to any of these sources as needed.

Analysis is needed in addition to access the information referenced in the decisions. Political scientists tend to approach judicial decision-making using methodological individualism. This focuses analysis on individual judges, the eras in which they work, the coalitions they form, and so forth. If these provide the primary circuits through which decisions are made, time would minimize the common space and maximize the unique space. The more unique space, the less predictable. There is a force, *stare decisis*, that increases the common space and reduces the unique space to provide regularity for lower courts and help insulate judicial from political decision-making. We have analyses of individual judge, term, and even “Chief Justice” court. We need analysis of SCOTUS’ understanding and use of Constitutional clauses over time. Eventually artificial intelligence parsing systems will provide greater understanding of the *stare decisis* force.

Meanwhile, analyzing the meaning and use of Constitutional clauses is a daunting research project in itself. Adding analyses of the dicta, concurrent and dissent logics adds further complications, but we need some understanding of the *stare decisis* force when building the AI parsing systems. As part of the preparatory work, we have published *The Supreme Court, the Constitution, and William Rehnquist*, which looks at several Constitutional and justiciability clauses over time. We have in progress a second book that analyses several clauses from the Bill of Rights and the Civil War Amendments over time.

*iwgAIDS (Inter-Agency Working Group on AIDS Models and Methods)*  
“*iwgAIDS*” 2018 - 1989. This is the U.S. Model for HIV/AIDS. It has been used to model the HIV/AIDS pandemic throughout the world. It provided the foundation for several papers, a State Department White Paper, and is used by the Census Bureau for correcting population estimates in severely affected populations. The program includes routines for modeling prophylactic and therapeutic vaccine interventions and for modeling tuberculosis and certain mosquito-borne diseases. The simulation incorporates factors known to contribute 5% or more of the infections in a community.

*This is a complex multi-sector simulation system that includes a fully specified demographic model. The program includes sensitivity analysis routines that allow the user to determine to what components of their epidemic data variations will make the greatest difference in projections. (This is not a statistical model.) Program also includes a policy analysis system, whereby analysts can simulate the impact of potential policy changes. The program has been highly modularized so users can simply turn off one or more components of their epidemic. The program now exceeds two million lines of code.*

*[Consultant work for U.S. Department of State (named Research Scientist), Department of Defense, United Nations & World Health Organization, Intelligence Agencies, Centers for Disease Control and Prevention, World Bank, United States Agency for International Development, Futures Group, Family Health International, plus various country, state, and city health departments]*

*Stover, John, Garnett, Geoff P., Seitz, Steve, Forsythe, Steven. (2002) “The Epidemiological Impact of an HIV/AIDS Vaccine in Developing Countries.” The World Bank: Development Research Group, Policy Research Working Paper, 2811 (March). This paper is now one of the top ten (3<sup>rd</sup>) most downloaded in its category.*

*Seitz, Steven Thomas (2002) The Potential Epidemiological Impact of Prophylactic Vaccines: Results of the iwgAIDS Model. Technical Annex 2. The Epidemiological Impact of an HIV/AIDS Vaccine in Developing Countries. The World Bank: Development Research Group, Policy Research Paper 2811 (March)*

*Seitz, Steven T. and Hulin, Charles L (2002). Multi-Level Simulation Analysis: The Dynamics of HIV/AIDS. In Francis Yammarino and Fred Dansereau (Eds.) The Many Faces of Multi-Level Issues. Research in Multi-Level Issues Vol. 1. Oxford: Elsevier Science.*

*Bernstein, Robert S., Sokal, David C., Seitz, Steven T., Auvert, Bertran, Stover, John, and Naamara, Warren, (1998) "Simulating the Control of a Heterosexual HIV Epidemic in a Severely Affected East African City", Interfaces 28:3 May-June (pp. 101-126).*

Seitz, Steven T. and Gene Mueller, (1994) "Viral Load and Sexual Risk," in Edward H. Kaplan & Margaret Brandeau, eds. *Modeling the AIDS Epidemic: Planning, Policy, and Prediction*, Raven Press.

Stanley, E. Ann, Steven T. Seitz, Peter O. Way, Peter D. Johnson and Tom F. Curry (1991) "The United States InterAgency Working Group Approach: IWG Model for the Heterosexual Spread of HIV and the Demographic Impact of the AIDS Epidemic," *United Nations and World Health Organization, The AIDS Epidemic and its Demographic Consequences*, 119-136.

## WORKER

"*WORKER*," 2009-1992. Why workers leave organizations has important implications for reasons ranging from the amortization of training costs to keeping highly valued employees. Social psychology and labor research have several alternate explanations of the "withdrawal behaviors" of organizational employees. Data lead to contradictory conclusions, in part because the model being used directs researchers to collect certain data and ignore others, and in part because the models are incompletely specified and typically static. This project simulates all the models in these literatures, fully specifies them for computational analysis, and converts the static systems into dynamic ones. The analysis allows simulation of partial data as if complex points in spatial and temporal sets. The simulation analysis allows new perspectives and findings for industrial and social psychology. The work has received the Giselli prize in organizational and industrial psychology and has served as the basis for consulting work.

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Seitz, Steven T. and Miner, Andrew G. (2002) Models of Organizational Withdrawal: Information and Complexity. In J.M. Brett and F. Drasgow (Eds.), *The Psychology of Work: Theoretically Based Empirical Research*. Mahwah, N.J.: Erlbaum.

Hulin, C.L., Miner, A.G., & Seitz, S.T. (2002) Computational Modeling in Organizational Sciences: Contributions of a Third Research Discipline. In F.D. Drasgow and N. Schmidt (Eds.), *New developments in research methods in I/O psychology*. San Francisco: Jossey-Bass.

Seitz, Steven T. (2002) "Expanding the Human-Machine Nexus," *Fundamentals of Wearable Computers and Augmented Reality* edited by Woodrow Barfield and Thomas Caudell, *Contemporary Psychology: APA Review of Books*, Vol. 47, No. 5 (599-601).

Hanisch, K.A., Hulin, C.L., & Seitz, S.T. (2001) "Computational modeling of temporal dynamics and emergent properties of organizational withdrawal behaviors

and models." In U. Kleinbeck and M. Erz, *Work Motivation in the Context of Globalizing Economies*. Erlbaum.

Seitz, Steven T., Hulin, Charles L., and Hanisch, K.A. (2000) "Simulating Withdrawal Behaviors in Work Organizations: An Example of a Virtual Society." *Nonlinear Dynamics, Psychology, and Life Sciences*. Vol. 4, No. 1 (pp. 33-65).

Seitz, Steven T. (2000) "Virtual Organizations." In Hulin, C.L., & Ilgen, D.R. *Computational Modeling of Behavioral Processes in Organizations: The Third Scientific Discipline in Behavioral Research*. Washington, D.C.: American Psychological Association.

Seitz, Steven T., Hulin, Charles L. and Hanisch Kathy A. (1996) "Mathematical/Computational Modeling of Organizational Withdrawal Processes, Benefits, Methods, and Results " edited by Gerald R. Ferris, in *Research in Personnel and Human Resource Management*, Vol. 14.

#### *Super Power Rivalries*

"*APOLLO'S ORACLE*," 201x; 1992-1987. The international relations literature has a small number of stories explaining the what, how, and why of superpower rivalries. Discursive stories like these typically conjure evidence that support their position, but remain silent on evidence that the story cannot explain or that is contradictory. Each of these stories were rendered into dynamic computational models. The program allows the user to compare model predictions under user-specified conditions. The program also allows the user to compare a model to any of a series of case studies that have been incorporated. The program has been used in advanced college courses and apparently is also being used in China. Recent changes to the program incorporate Olson's theory of collective action.

Seitz, Steven T. (1994) "Apollo's Oracle: Strategizing For Peace," Special issue on Formal Analysis in International Relations, *Synthese* 100: 461-495.

Seitz, Steven T. (1993) "Through Rose Colored Glasses," in R. Merritt, R. Muncaster, and D. Zinnes, eds., *International Event Data Development: DDIR Phase II*, Michigan University Press, 169-220.

Seitz, Steven T. (1986) "Fuzzy Modeling and Conflict Analysis," *Journal of Conflict Management and Peace Science*, 9:1 (53-67).

#### *Criminal Justice*

Seitz, Steven T. (1979) "Guns, Politics, and Public Policy," in Paul J. Brantingham and Jack M. Kress, eds., *Structure, Law, and Power*, Sage Research Progress Series in Criminology, 13: 83-104.

Seitz, Steven T., (1978) "Criminal Justice and the Political Structure," in Burton Wright II and Vernon Fox, eds., *Criminal Justice and the Social Sciences*, W.B. Saunders, 313-342.

Seitz, Steven T., (1978) "The Politics of Crime," in Burton Wright II and Vernon Fox, eds., *Criminal Justice and the Social Sciences*, W.B. Saunders, 348-378.

Seitz, Steven T. (1972) "Firearms, Homicides, and Gun Control Effectiveness," *Law and Society Review*, 6: 595-613.

#### *Africa*

Seitz, Steven T. (1991) "The Military in Black African Politics," *Journal of Asian and African Studies*, 26, 61-75.

Seitz, Steven T. (1984) "Nation- and State-building in Sub-Saharan Africa: Review Essay," *American Political Science Review*, 78:4 (December), 1083-1085.

Seitz, Steven T. and Morris Davis, (1984) "The Political Matrix of Natural Disasters: Africa and Latin America," *International Journal of Mass Emergencies and Disasters*, 2:2 (231-250).

Davis, Morris and Steven T. Seitz (1982) "Disasters and Governments," *Journal of Conflict Resolution*, 26:3 (547-568).

#### *Some Other Publications*

Seitz, Steven T. (1986) "Political Science," in William H. Webb ed., *Sources of Information in the Social Sciences*, 503-584.

Seitz, Steven T. (1978) *Bureaucracy, Policy, and the Public*, Saint Louis: C.V. Mosby.

Seitz, Steven T. and L. Earl Shaw (1977) "Partisanship in a Non-Partisan Legislature: Minnesota," in Millard Gieske and Edward Brandt, eds., *Perspectives on Minnesota Government and Politics*, Kendall/Hunt, 177-184.

Seitz, Steven T. (1973) "Political Ideologies and the Essence of Politics," in L. Earl Shaw, ed., *Modern Competing Ideologies*, D.C. Heath, 1-15.

#### *Some Other Computer Programs*

"Minerva" [Multi-sector epidemiological program designed to model three different forms of disease spread: simple (e.g. measles) contagion, vector (e.g. mosquito) contagion, and behavioral (e.g. HIV) contagion. Contains mapping program for modeling geographical spread.]

"ROSIE: Metaphoric Text Parser" [This program parses text streams for meaning analysis using an on-board library of metaphors.]

“Democracy in Practice” Multi-media courseware for American Government

“*Reasoned Action Dynamics*,” This program converts the static model of reasoned action into a dynamic computational model for changing attitudinal intentions.

*Other*

Chair, General University Policy Committee (former)

Book Review Editor, *American Political Science Review* (former)