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Curriculum Vitae

Peter Turchin

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Education:

1985	Ph.D.	Duke University	Zoology (minor: mathematics)
1980	B.A.	New York University	Biology (cum laude)
1975–7		Moscow State University	Biology

Professional Positions:

Department of Ecology and Evolutionary Biology, University of Connecticut

2002– Professor
 1997–02 Associate Professor
 1994–97 Assistant Professor

School of Anthropology, University of Oxford

2013– Research Associate

The Evolution Institute

2010– Founding Member of the Board of Directors; Vice-President (2010–2017)

Institute for Advanced Studies in Toulouse

2015 Visiting Fellow

Religion, Cognition, and Culture, Aarhus University, Denmark

2013–4 Distinguished Fellow and Visiting Professor

Santa Fe Institute

2007–8 Visiting Professor

Southern Forest Experiment Station, Forest Service Research

1990–94 Supervisory Ecologist
 1988–90 Ecologist

Department of Zoology, University of Washington

1988 Lecturer
 1985–88 Postdoctoral Research Associate

Department of Zoology, Duke University

1983–85 Teaching Assistant

Professional Activities:

Symposia, workshops, and working groups organized

2017 Explaining Institutional Change in History. June 2017, Institute for Advanced Study in Toulouse, France (*with Mohamed Saleh*)

2016 Examining Social Complexity, Religion and Prosociality with *Seshat: Global History Databank*. August 2016; Complexity Institute, Nanyang Technical University, Singapore (*with Daniel Mullins*)

2016 Seshat Workshop on North China: Social Complexity, Warfare, and Ritual. January 2016; Tampa, Florida (*with Daniel Hoyer*)

2015 Strüngmann Forum on Evolutionary Economics. February 2015, Frankfurt, Germany (*with David S. Wilson, Ulrich Witt, Alan Kirman, and Eric Beinhocker*)

2013 Evolution of Institutions. A Working Group at NIMBioS, Knoxville, TN (*with Peter Richerson and Jenna Bednar*)

2012 Historical Database of Sociocultural Evolution: Design and Coding. November 2012; Storrs, CT.

- 2012 Towards a Formal Theory for the Evolution of Human Social Complexity. An investigative workshop at the NIMBios. February 6–8, 2012; Knoxville, TN (*with Laura Fortunato and Sergey Gavrilets*)
- 2011 An Evolutionary Approach to the Twin Problems of Failed States and Nation-Building. A Working Conference Organized by the Evolution Institute. December 3–5, 2011; Palo Alto, CA
- 2006 Measuring and modeling cycles of state formation, decline and upward sweeps since the bronze age. San Diego (*with C. Chase-Dunn*).
- 2004 Analyzing Complex Macrosystems as Dynamic Networks. A workshop at the Santa Fe Institute (*with D. White and C. Chase-Dunn*).
- 2004 Studying Political Centralization Cycles as a Dynamic Process. Organized an invited panel at the Third International Conference on Hierarchy and Power in the History of Civilizations, Moscow, Russia.
- 2000–7 Working group on Landscape Ecology of Reintroduced Ungulate Populations (an NSF-funded joint project of the universities of Connecticut, Wisconsin, Alberta, and Guelph)
- 1998 Nonlinear time-series analysis. Workshops at Leiden University, Netherlands; and University of Marseilles, France.
- 1997 Building empirically-based theory for spatial ecology: tales from the front lines. Invited Symposium at Ecological Society of America Annual Meeting, Albuquerque, NM.
- 1995–98 Working Group on Complex Population Dynamics (*with W. Murdoch*). NCEAS, Santa Barbara, CA.
- Service*
- 2012– Founding Editor and Overall Coordinator, *Seshat: Global History Databank*
- 2010– Editor-in-Chief, *Cliodynamics: The Journal of Quantitative History and Cultural Evolution*
- 2015–7 Founding Member and Chair of Elections Committee, *Cultural Evolution Society*
- 2011–15 Editor-in-Chief, *Social Evolution Forum*
- 2004 Sino-US Collaboration Project *Ecological Complexity and Ecosystem Services*
- 2000 NSF Site Visit Team for the National Center for Ecological Analysis and Synthesis
- 1999–02 Editorial Board, *Researches in Population Ecology*
- 1998–00 Associate Editor, *Ecology Letters*.
- 1995–97 Scientific Advisory Board, National Center for Ecological Analysis and Synthesis; Santa Barbara, CA
- 1993–97 NSF Ecological Studies Panel
- 1992 NSF Special Projects Panel
- Honors or distinctions*
- 2010 Main guest speaker for IDER symposium on *Modeling reality: the use of mathematical models to describe and predict social dynamics*. Ben Gurion University of the Negev, Israel
- 2004 *ISI Highly Cited* identified Turchin as a top cited author in the field of Ecology/Environment
- 2003 UConn Alumni Association's Award: Faculty Excellence in Research
- 2000–01 Fulbright Scholarship
- 2000 Chancellor's Research Excellence Award (University of Connecticut)
- 1999 Invited Lecturer at Oikos Seminar on Costs and Gains of Recent Progress in Ecology
- 1997 Elected Chair of the Theoretical Ecology Section of the Ecological Society of America
- 1995 Invited Guest Speaker at the Society of Population Ecology Meeting; Mie, Japan
- Postdoctoral Associates:*
- 2015– Daniel Mullins (Evolution Institute)
- 2014– Daniel Hoyer (University of Toronto)
- 2011–14 Pieter Francois (University of Hertfordshire and University of Oxford)
- 2004–05 Juan Manuel Morales (Universidad Nacional de Comahue)
- 2003–05 Mosheh Wolf (Desert Turtle Preserve Committee)
- 1999–03 Kim Cuddington (Miami University of Ohio)
- 1995–98 Rich Wilkens (Dowling College)

1993–95 Jim Cronin (University of Louisiana)
 1989–90 Andy Taylor (University of Hawaii)

Ph.D. students graduated:

Jay Bancroft (2000)
 Eric Schaubert (2000)
 Kristian Omland (2001)
 Juan Manuel Morales (2004)

Research grants

2014–17	John Templeton Foundation.	Axial-Age Religions and the Z-Curve of Human Egalitarianism (with T. Currie and H. Whitehouse)
2014–16	Tricoastal Foundation.	The Deep Roots of the Modern World: Investigating the Cultural Evolution of Economic Growth and Political Stability (with T. Currie)
2011–15	ESRC	Ritual, Community, and Conflict (Project Director: H. Whitehouse)
2005–08	NSF	Global state formation: modeling the rise, fall and upward sweeps of large polities in world history and the global future (with C. Chase-Dunn and E. Anderson)
2005–07	NSF	Supplement to the 2000–5 NSF-IRCEB grant
2000–05	NSF	IRCEB: Building a mechanistic basis for landscape ecology of ungulate populations (with J. Fryxell, M. Turner, M. Boyce, and E. Merrill)
1997–99	NSF	Dispersal as a mechanistic basis for landscape ecology: the role of scale and heterogeneity.
1997–2000	NSF	Direct and indirect effects on community resilience in oak forests.
1996–98	NCEAS	Working group on complex population dynamics.
1995–98	NSF	Testing reaction-diffusion theory: spatial dynamics in a bark beetle–predator system.
1994–96	UConn	Investigating small mammal cycles with empirically-based models.
1992–95	USDA	Evaluation of the area-wide efficacy of direct control tactics for southern pine beetle.
1992–94	USDA	Effects of thinning on southern pine beetle risk to old-growth pine stands.
1991–92	USDA	Effects of mixed pine – hardwood management on pine mortality due to bark beetles: a landscape approach.
1989–91	USDA	Empirical and quantitative analysis of intraforest dispersal in the southern pine beetle.
1986–88	NSF	Influence of host patch size on herbivore population dynamics.

Publications

Books

Turchin P. 2016. *Ages of Discord: A Structural Demographic Analysis of American History*. Beresta Books, CT.

Turchin P. 2016. *Ultrasociety: How 10,000 Years of War Made Humans the Greatest Cooperators on Earth*. Beresta Books, CT.

Turchin P, Nefedov SA. 2009. *Secular Cycles*. Princeton University Press, Princeton, NJ.

Turchin P. 2005. *War and Peace and War: Life Cycles of Imperial Nations*. Pi Press. (Serbian translation: 2006; Korean translation: 2006; Russian translation: to be published soon). Published as a paperback under the title *War and Peace and War: The Rise and Fall of Empires* by Plume/Penguin in February 2007.

Turchin P. 2003. *Historical Dynamics: Why States Rise and Fall*. Princeton University Press, Princeton, NJ. (Russian translation published in 2007)

Turchin P. 2003. *Complex Population Dynamics: a Theoretical/Empirical Synthesis*. Princeton University Press, Princeton, NJ. (Russian translation: 2008; Japanese translation: to be published soon)

Turchin P. 1998. *Quantitative Analysis of Movement: Measuring and Modeling Population Redistribution in Animals and Plants*. Sinauer Associates, Sunderland, MA.

Articles in Nature, Science, or PNAS

- Brewer, J., M. Gelfand, J. C. Jackson, I. F. MacDonald, P. N. Peregrine, P. J. Richerson, P. Turchin, H. Whitehouse, and D. S. Wilson. 2017. Grand Challenges for the Study of Cultural Evolution. *Nature Ecology & Evolution* 1: 0070.
- Turchin, Peter. 2016. Mine the Past for Patterns. *Nature* 535:488-489.
- Turchin P. 2015. Cultivating Human Culture (a book review). *Science* 348: 508.
- Turchin P, Currie TE, Turner EAL, Gavrilets S. 2014. Reply to Thomas: Diffusion of military technologies is a plausible explanation for the evolution of social complexity, 1500 BCE–AD 1500. *PNAS* 111: E415-E415.
- Turchin P, Currie TE, Turner EAL, Gavrilets S. 2013. War, Space, and the Evolution of Old World Complex Societies. *PNAS* 110:16384–16389.
- Turchin P. 2010. 2020: Political Instability May Play a Role. *Nature* 463: 608. (an invited letter)
- Turchin P, Scheidel W. 2009. Coin Hoards Speak of Population Declines in Ancient Rome. *PNAS* 106: 17276-17279.
- Turchin P. 2008. Arise ‘cliodynamics’. *Nature* 454:34-35.
- Turchin, P. 2008. Building nations after conflict (a book review). *Nature* 453:986-987.
- Burtsev M, Turchin P. 2006. Evolution of cooperative strategies from first principles. *Nature* 440:1041-4.
- Turchin P. 2003. Evolution in population dynamics. *Nature* 424: 257-258.
- Ellner SP, McCauley E, Kendall BE, Briggs CJ, Hosseini PR, Wood SN, Janssen A, Sabelis MW, Turchin P, Nisbet RM, Murdoch WW. 2001. Habitat structure and population persistence in an experimental community. *Nature* 412: 538-543.
- Turchin P, Oksanen L, Ekerholm P, Oksanen T, Henttonen H. 2000. Are lemmings prey or predators? *Nature* 405: 562-565.
- Turchin P, Taylor AD, Reeve JD. 1999. Dynamical role of predators in population cycles of a forest insect: an experimental test. *Science* 285: 1068-1071.
- Hanski I, Turchin P, Korpimäki E, Henttonen H. 1993. Population oscillations of boreal rodents: regulation by mustelid predators leads to chaos. *Nature* 364: 232-235.
- Turchin P. 1990. Rarity of density dependence or population regulation with lags? *Nature* 344: 660-663.

Articles in other peer-reviewed journals

- Turchin, Peter, Thomas E. Currie, and Edward A.L. Turner. 2016. Mapping the Spread of Mounted Warfare. *Cliodynamics: The Journal of Quantitative History and Cultural Evolution*, 7(2): 217–227.
- François, Pieter, Joseph Manning, Harvey Whitehouse, Rob Brennan, Thomas Currie, Kevin Feeney, Peter Turchin. 2016. A Macroscopic for Global History: Seshat Global History Databank, a Methodological Overview. *Digital Humanities Quarterly* 10(4).
- Turchin P, Currie, TC. 2016. Cultural Group Selection Is Plausible, but the Predictions of its Hypotheses Should be Tested with Real-World Data. *Behavioral and Brain Sciences* 39: 43–44.
- Whitehouse, Harvey; François, Pieter; & Turchin, Peter. 2015. The Role of Ritual in the Evolution of Social Complexity: Five Predictions and a Drum Roll. *Cliodynamics: The Journal of Quantitative History and Cultural Evolution*, 6(2): 199-216.
- Currie, Thomas; Bogaard, Amy; Cesaretti, Rudolf; Edwards, Neil R.; François, Pieter; Holden, Philip; Hoyer, Daniel, Turchin, Peter, et. al. 2015. Agricultural Productivity in Past Societies: Toward an Empirically Informed Model for Testing Cultural Evolutionary Hypotheses. *Cliodynamics: The Journal of Quantitative History and Cultural Evolution* 6(1): 24–56.
- Turchin, Peter, Rob Brennan, Thomas E. Currie, Kevin C. Feeney, Pieter François, Daniel Hoyer, J. G. Manning, Arkadiusz Marciniak, Daniel Mullins, Alessio Palmisano, Peter Peregrine, Edward A. L. Turner, Harvey Whitehouse. 2015. Seshat: The Global History Databank. *Cliodynamics* 6(1):77–107.
- Turchin, Peter. 2014. Cultural Evolution and Cliodynamics. *Cliodynamics: The Journal of Quantitative History and Cultural Evolution* (5)1: 1-3
- Turchin, Peter. 2014. The SESHAT Databank Project: the 2014 Report. *Cliodynamics: The Journal of Quantitative History and Cultural Evolution* (5):58-64
- Turchin, Peter. 2013. Modeling Social Pressures Toward Political Instability. *Cliodynamics* 4: 241–280.
- Turchin, Peter. 2013. The West and the Rest: the Science of the Great Divergence. *Cliodynamics* 4: 67–85.

- Turchin, Peter, Harvey Whitehouse, Pieter François, Edward Slingerland, and Mark Collard. 2012. A Historical Database of Sociocultural Evolution. *Cliodynamics* 3: 271–293.
- Turchin, P. 2012. Dynamics of Political Instability in the United States, 1780–2009. *Journal of Peace Research* 4: 577-591.
- Turchin, P. 2012. Religion and Empire in the Axial Age. *Religion, Brain & Behavior* 2: 256-260.
- Turchin, P. 2011. Social Tipping Points and Trend Reversals: A Historical Approach. *Vestnik Moskovskogo Universiteta*, Series XXVII Globalistika i Geopolitika, Number 1-2: 92-104.
- Turchin, P. 2011. Strange Parallels: Patterns in Eurasian Social Evolution. *Journal of World Systems Research* 17(2): 538-552.
- Turchin P. 2011. Toward Cliodynamics – an Analytical, Predictive Science of History. *Cliodynamics* 2: 167-186.
- Turchin, P. 2011. Warfare and the Evolution of Social Complexity: a Multilevel Selection Approach. *Structure and Dynamics* Vol. 4, Iss. 3, Article 2:1-37.
- Gavrilets S, Anderson D, Turchin P. 2010. Cycling in the Complexity of Early Societies. *Cliodynamics* 1: 58-80.
- Turchin P, Peiros I, Gell-Mann M. 2010. Analyzing Genetic Connections between Languages by Matching Consonant Classes. *Journal of Language Relationship* 3:117-126.
- Turchin P, Gavrilets S. 2009. Evolution of Complex Hierarchical Societies. *Social Evolution and History* 8(2): 167-198.
- Turchin, P. 2009. A Theory for Formation of Large Empires. *Journal of Global History* 4:191-207.
- Wolf M, Frair J, Merrill E, Turchin P. 2009. The attraction of the known: the importance of spatial familiarity in habitat selection in wapiti *Cervus elaphus*. *Ecography* 32: 401-410.
- Turchin, P. 2009. Long-term population cycles in human societies. Pages 1-17 in R. S. Ostfeld and W. H. Schlesinger, editors. *The Year in Ecology and Conservation Biology, 2009*. Ann. N. Y. Acad. Sci. 1162.
- Turchin, P. 2008. Theories and models in empirical investigation of historical dynamics (in Russian). *Istoriya i sovremennost* 2008(2): 10-33.
- Turchin P, Adams JM, Hall TD. 2006. East-West Orientation of Historical Empires and Modern States. *Journal of World-Systems Research* 12:219-229.
- Turchin P, Korotayev A. 2006. Population Dynamics and Internal Warfare: a Reconsideration. *Social Evolution and History* 5(2): 121-158.
- Ellner SP, Turchin P. 2005. When can noise induce chaos and why does it matter: a critique. *Oikos* 111: 620-631.
- Turchin P. 2005. Dynamical Feedbacks between Population Growth and Sociopolitical Instability in Agrarian States. *Structure and Dynamics* 1(1): Article 3.
- Turchin P. 2005. A Primer on Statistical Analysis of Dynamical Systems in Historical Social Sciences (with a Particular Emphasis on Secular Cycles). *Structure and Dynamics* 1(1): Article 4.
- Turchin P. 2005. Response to Oscillations in Population Sizes – From Ecology to History. *Structure and Dynamics* 1(1): Article 11.
- Kendall BE, Ellner SP, McCauley E, Wood SN, Briggs CJ, Murdoch WW, Turchin P. 2005. Population cycles in pine looper moth (*Bupalus piniarius*): dynamical tests of mechanistic hypotheses. *Ecological Monographs* 75: 259-276.
- Nazaretyan AP, Borodkin, LI, Malkov, SYu, Chernavskiy DS, Turchin PV, Lyuri DI, Armand, AD, Krichevets AN, Ionov IN, Kazankov AA, Borinsaya SA, Litvinenko VA, Karavayev VA. 2004. Vozmozhny li matematicheskie modeli v istorii? (Are mathematical models in history possible?) *Obschestvennye nauki i sovremennost'* 2004(3): 111-122.
- Turchin P, Wood SN, Ellner SP, Kendall BE, Murdoch WW, Fischlin A, Casas J, McCauley E, Briggs CJ. 2003. Dynamical effects of plant quality and parasitism on population cycles of larch budmoth. *Ecology* 84: 1207-1214.
- Boyce MS, Mao JS, Merrill EH, Fortin D, Turner MG, Fryxell J, Turchin P. 2003. Scale and heterogeneity in habitat selection by elk in Yellowstone National Park. *Ecoscience* 10:321-332.
- Bancroft JS, Turchin P. 2003. An experimental test of fragmentation and loss of habitat with *Oryzaephilus surinamensis*. *Ecology* 84: 1756-1767.
- Turchin, P. 2003. Secular waves in historical demography (in Russian). *Priroda* 6: 3-12.
- Turchin P, Hall TD. 2003. Spatial synchrony among and within world-systems: insights from theoretical ecology. *Journal of World Systems Research* 9: 37-64.

- Turchin P. 2002. Are there general laws in population ecology? (In Russian) Zhurnal Obschey Biologii 63: 3-14. (This is a reworked Russian translation of the Oikos 94:17 article.)
- Schauber EM, Kelly D, Turchin P, Simon C, Lee WG, Allen RB, Payton IJ, Wilson PR, Cowan PE, Brockie RE. 2002. Synchronous and asynchronous masting by 18 New Zealand plant species: the role of temperature cues and implications for climate change. Ecology 83: 1214-1225.
- Turchin P, Batzli GO. 2001. Availability of food and the population dynamics of arvicoline rodents. Ecology 82: 1521-1534.
- Hanski I, Henttonen H, Korpimäki E, Oksanen L, Turchin P. 2001. Small rodent dynamics and predation. Ecology 82: 1505-1520.
- Turchin P. 2001. Does population ecology have general laws? Oikos 94: 17-26.
- Turchin P, Hanski I. 2001. Contrasting alternative hypotheses about rodent cycles by translating them into parameterized models. Ecology Letters 4: 267-276.
- Berryman AA, Turchin P. 2001. Identifying the density-dependent structure underlying ecological time series. Oikos 92: 265-270.
- McCauley E, Kendall BE, Janssen A, Wood S, Murdoch WW, Hosseini P, Briggs C, Ellner SE, Nisbet RN, Sabelis MW, Turchin P. 2000. Inferring colonization processes from population dynamics in spatially structured predator-prey systems. Ecology 81: 3350-3361 .
- Turchin P, Ellner SP. 2000. Living on the edge of chaos: population dynamics of Fennoscandian voles. Ecology 81: 3099-3116.
- Grover JP, McKee D, Young S, Godfray HCJ, Turchin P. 2000. Periodic dynamics in *Daphnia* populations: biological interactions and external forcing. Ecology 81: 2781-2798.
- Cronin JT, Reeve JD, Wilkens R, Turchin P. 2000. The pattern and range of dispersal of a checkered-beetle predator relative to its bark-beetle prey. Oikos 90: 127-138.
- Turchin P, Davidson J, Hayes JL. 1999. Effects of thinning on development of southern pine beetle infestations in old-growth stands. Southern Journal of Applied Forestry 23: 193-196.
- Kendall BE, Briggs CJ, Murdoch WW, Turchin P, Ellner SP, McCauley E, Nisbet RM, Wood SN. 1999. Why do populations cycle? A synthesis of statistical and mechanistic modeling approaches. Ecology 80: 1789-1805.
- Turchin P, Berryman AA. 1999. Detecting cycles and delayed density dependence: a comment on Hunter and Price (1998). Ecological Entomology 25: 1-3.
- Cronin JT, Turchin P, Hayes JL, Steiner CA. 1999. Area-wide efficacy of a localized forest pest management practice. Environmental Entomology 28: 496-504.
- Turchin P. 1999. Population regulation: a synthetic view. Oikos 84: 153-159.
- Reeve JD, Rhodes DJ, Turchin P. 1998. Scramble competition in southern pine beetle, *Dendroctonus frontalis*. Ecological Entomology 23: 433-443.
- Turchin P, Hanski I. 1997. An empirically-based model for the latitudinal gradient in vole population dynamics. American Naturalist 149: 842-874.
- Turchin P, Ostfeld RS. 1997. Effects of density and season on the population rate of change in the meadow vole. Oikos 78: 355-361.
- Berryman A, Turchin P. 1997. Detection of delayed density dependence: comment. Ecology 78: 318-320.
- Turchin P. 1996. Nonlinear time-series modeling of vole population fluctuations. Researches in Population Ecology 38: 121-132.
- Turchin P. 1996. Fractal analyses of animal movement: a critique. Ecology 77: 2086-2090.
- Turchin P, Odendaal FJ. 1996. Measuring the effective sampling area of a pheromone trap for monitoring population density of southern pine beetle (Coleoptera: Scolytidae). Environmental Entomology 25: 582-588.
- Turchin P. 1995. Chaos in microtine populations. Proceedings of the Royal Society of London B 262: 357-361.
- Ellner S, Turchin P. 1995. Chaos in a noisy world: new methods and evidence from time series analysis. American Naturalist 145: 343-375.
- Turchin P. 1993. Chaos and stability in rodent population dynamics: evidence from nonlinear time-series analysis. Oikos 68: 167-171.
- Hastings A, Hom CL, Ellner S, Turchin P, Godfray HCJ. 1993. Chaos in ecology: is mother nature a strange attractor? Annual Review of Ecology and Systematics 24: 1-33.
- Turchin P. 1993. The logistic equation revisited. TREE 8: 68.

- Turchin P, Thoeny W. 1993. Quantifying dispersal of southern pine beetles with mark-recapture experiments and a diffusion model. *Ecological Applications* 3: 187-198.
- Schowalter TD, Turchin P. 1993. Southern pine beetle infestation development: interaction between pine and hardwood basal areas. *Forest Science* 39: 201-210.
- Turchin P, Taylor AD. 1992. Complex dynamics in ecological time-series. *Ecology* 73: 289-305.
- Odendaal FJ, Turchin P, Hoy G, Wickens P, Wells J, Schroeder G. 1992. *Bullia digitalis* (Gastropoda) actively pursues moving prey by swash-riding. *Journal of Zoology London* 228: 103-113.
- Turchin P. 1991. Translating foraging movements in heterogeneous environments into the spatial distribution of foragers. *Ecology* 72: 1253-1266.
- Turchin P. 1991. Reconstructing endogenous dynamics of a laboratory *Drosophila* population. *Journal of Animal Ecology* 60: 1091-1098.
- Turchin P, Odendaal FJ, Rausher MD. 1991. Quantifying insect movement in the field. *Environ Entomol* 20: 955-963.
- Turchin P, Lorio PL, Taylor AD, Billings RF. 1991. Why do populations of southern pine beetles (Coleoptera: Scolytidae) fluctuate? *Environmental Entomology* 20: 401-409.
- Turchin P. 1989. Population consequences of aggregative movement. *Journal of Animal Ecology* 58: 75-100.
- Turchin P. 1989. Beyond simple diffusion: models of not-so-simple movement in animals and cells. *Comments on Theoretical Biology* 1: 65-83.
- Odendaal FJ, Turchin P, Stermitz FR. 1989. Resource distribution, harassment by males and spatial patterns of female *Euphydryas anicia* (Nymphalidae). *Oecologia* 78:283-288.
- Turchin P, Kareiva P. 1989. Aggregation in *Aphis varians*: an effective strategy for reducing predation risk. *Ecology* 70: 1008-1016.
- Odendaal FJ, Turchin P, Stermitz PR. 1988. An incidental-effect hypothesis explaining aggregation of males in a population of *Euphydryas anicia*. *American Naturalist* 132: 735-749.
- Turchin P. 1988. The effect of host-plant density on the numbers of Mexican bean beetles, *Epilachna varivestis*. *American Midland Naturalist* 119: 15-20.
- Turchin P. 1987. The role of aggregation in the response of Mexican bean beetles to host-plant density. *Oecologia* 71: 577-582.
- Turchin P. 1986. Modelling the effect of host patch size on Mexican bean beetle emigration. *Ecology* 67: 124-132.

Book Chapters, Reviews

- Turchin P. 2016. Deep Historical Roots of European Values, Institutions, and Identities. *Do Europeans Exist?* Euromind.
- Brennan, Rob; Feeney, Kevin; Mendel-Gleason, Gavin; Bozic, Bojan; Turchin, Peter; Whitehouse, Harvey; François, Pieter; Currie, Thomas; Grohmann, Stephanie. (2016). Building the Seshat Ontology for a Global History Databank. *The Semantic Web. Latest Advances and New Domains, 13th International Conference, ESWC 2016, Proceedings, LNCS*, ed. H. Sack, Blomqvist, E., d'Aquin, M., Ghidini, C., Paolo Ponzetto, S., Lange, C., vol. 9678, 693-708. doi: 10.1007/978-3-319-34129-3_42.
- Turchin, Peter and Currie, Thomas E. 2016. Cultural group selection is plausible, but the predictions of its hypotheses should be tested with real-world data. *Behavioral and Brain Sciences*, 39: 43-44
- Currie, Thomas E; Turchin, Peter; Bednar, Jenna; Richerson, Peter J.; Schwesinger, Georg; Steinmo, Sven; Wacziarg, Romain; Wallis, John. 2016. Evolution of Institutions and Organizations. *Complexity and Evolution: Toward a New Synthesis for Economics*, ed. D. S. Wilson and A. Kirman. Strüngmann Forum Reports, vol. 19, J. Lupp, series editor. Cambridge, MA: MIT Press
- Currie, Thomas, Peter Turchin, Jenna Bednar, Peter J. Richerson, Georg Schwesinger, Sven Steinmo, Romain Wacziarg, and John Wallis. 2016. Evolution of Institutions and Organizations. Pages 199-234 in D. S. Wilson and A. Kirman (eds). *Complexity and Evolution: Toward a New Synthesis for Economics*. Cambridge, MA, MIT Press.
- Turchin P. 2013. The Puzzle of Human Ultrasociality: How Did Large-Scale Complex Societies Evolve? Pp. 61-73 in *Cultural Evolution: Society, Technology, Language, and Religion*, edited by P. J. Richerson and Morten H. Christiansen. Cambridge, MA: MIT Press.
- Jordan, Fiona M., Carel van Schaik, Pieter François, Herbert Gintis, Daniel B. M. Haun, Daniel J. Hruschka, Marco A. Janssen, James A. Kitts, Laurent Lehmann, Sarah Mathew, Peter J.

- Richerson, Peter Turchin, and Polly Wiessner. 2013. Cultural Evolution of the Structure of Human Groups. Pp. 87-116 in *Cultural Evolution*, edited by P. J. Richerson and Morten H. Christiansen. Cambridge, MA: MIT Press.
- Turchin P. 2013. Chiefs and Indians. A review of *The Creation of Inequality* by Kent Flannery and Joyce Marcus. *Times Literary Supplement*, 8 March 2013.
- Turchin PV. 2010. Cycles Nested within Cycles: Complex Dynamics of Political Instability (in Russian). Pp 46-53 in Pantin VI, Lapkin VV (eds). *Cycles of Political Development: The Forecasting Potential* (MEMO RAN, Moscow, Russian Federation).
- Turchin PV. 2010. Processes Influencing Medium-Term Dynamics of Political Instability in the USA (2010–2020). (In Russian) *Economic Strategies* 5(79): 10-21.
- Turchin P. 2008. Modeling periodic waves of integration in the Afro-Eurasian world-system. Pp. 163-191 in George Modelski, Tessaleno Devezas, William R. Thompson (eds). *Globalization as Evolutionary Process: Modeling Global Change*. Routledge, NY.
- Turchin PV. 2007. General empirical patterns in dynamics, cliodynamics, and demographic-structural theory. Pp. 248-251 in Turchin PV, Grinin LE, Malkov SYu, Korotayev AV (editors). 2007. *History and Mathematics: Conceptual Landscape and Research Directions* (in Russian). URSS, Moscow
- Turchin PV. 2007. Perspective of mathematical history. Pp. 8-18 in Turchin PV, Grinin LE, Malkov SYu, Korotayev AV (editors). 2007. *History and Mathematics: Conceptual Landscape and Research Directions* (in Russian). URSS, Moscow
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- Turchin PV, Grinin LE, Malkov SYu, Korotayev AV (editors). 2007. *History and Mathematics: Conceptual Landscape and Research Directions* (in Russian). URSS, Moscow
- Turchin P, Grinin, L, Korotayev, A, de Munck VC (editors). 2006. *History and Mathematics: Historical Dynamics and Development of Complex Societies*. URSS, Moscow.

Invited Speaker at Meetings (recent)

- 2015 Arne Naess Symposium, Oslo, Norway. October 1, 2015
- 2015 Crisis as an Opportunity: Can Interdisciplinary Perspectives from Evolutionary Biology, the Social Sciences and the Humanities Make a Change? PhD course, CSMN/Center for Development and the Environment, the University of Oslo, Norway. 28 September – 2 October 2015
- 2015 The Haves and the Have-Nots: Exploring the Global History of Wealth and Income Inequality. An International Conference in Vienna, Austria. September 10-12, 2015.
- 2015 For Concordance in Macrohistorical Datasets. Santa Fe Institute, Santa Fe, NM. May 4-6, 2015
- 2015 Workshop on Cultural Evolution, University of Maryland, College Park. March 18-20, 2015
- 2014 International Conference on Contextualising Technical Innovations in Prehistory. Max Planck Institute for the History of Science, Berlin, Germany. November 24-26, 2015
- 2014 International Workshop on Computational History, Royal Irish Academy, Dublin. June 27, 2014
- 2014 The Mathematics of Impending Social Implosion. A public lecture at the Royal Irish Academy, Dublin. June 26, 2014
- 2014 Military in Politics in the 21st Century. Institute for Advanced Studies, Toulouse, France. June 4-5, 2014