Christian A Yates

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7401628/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Misinformation can prevent the suppression of epidemics. Journal of the Royal Society Interface, 2022, 19, 20210668. | 1.5 | 5 |
| 2 | Critical weaknesses in shielding strategies for COVID-19. PLOS Global Public Health, 2022, 2, e0000298. | 0.5 | 9 |
| 3 | Pleiotropic constraints promote the evolution of cooperation in cellular groups. PLoS Biology, 2022, 20, e3001626. | 2.6 | 5 |
| 4 | Equivalence framework for an age-structured multistage representation of the cell cycle. Physical Review E, 2022, 105, . | 0.8 | 2 |
| 5 | Pigment Patterning in Teleosts. , 2021, , 247-292. | | 3 |
| 6 | Synchronized oscillations in growing cell populations are explained by demographic noise. Biophysical Journal, 2021, 120, 1314-1322. | 0.2 | 6 |
| 7 | Incorporating domain growth into hybrid methods for reaction–diffusion systems. Journal of the Royal Society Interface, 2021, 18, 20201047. | 1.5 | 4 |
| 8 | The blending region hybrid framework for the simulation of stochastic reaction–diffusion processes. Journal of the Royal Society Interface, 2020, 17, 20200563. | 1.5 | 2 |
| 9 | A theoretical framework for transitioning from patient-level to population-scale epidemiological dynamics: influenza A as a case study. Journal of the Royal Society Interface, 2020, 17, 20200230. | 1.5 | 26 |
| 10 | A quantitative modelling approach to zebrafish pigment pattern formation. ELife, 2020, 9, . | 2.8 | 35 |
| 11 | Pulling in models of cell migration. Physical Review E, 2019, 99, 062413. | 0.8 | 2 |
| 12 | Unbiased on-lattice domain growth. Physical Review E, 2019, 100, 063307. | 0.8 | 1 |
| 13 | The invasion speed of cell migration models with realistic cell cycle time distributions. Journal of Theoretical Biology, 2019, 481, 91-99. | 0.8 | 15 |
| 14 | Spatially extended hybrid methods: a review. Journal of the Royal Society Interface, 2018, 15, 20170931. | 1.5 | 32 |
| 15 | Modeling persistence of motion in a crowded environment: The diffusive limit of excluding velocity-jump processes. Physical Review E, 2018, 97, 032416. | 0.8 | 8 |
| 16 | The auxiliary region method: a hybrid method for coupling PDE- and Brownian-based dynamics for reaction–diffusion systems. Royal Society Open Science, 2018, 5, 180920. | 1.1 | 13 |
| 17 | Robustly simulating biochemical reaction kinetics using multi-level Monte Carlo approaches. Journal of Computational Physics, 2018, 375, 1401-1423. | 1.9 | 3 |
| 18 | Stochastic and Deterministic Modeling of Cell Migration. Handbook of Statistics, 2018, 39, 37-91. | 0.4 | 10 |

CHRISTIAN A YATES

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Pair correlation functions for identifying spatial correlation in discrete domains. Physical Review E, 2018, 97, 062104. | 0.8 | 17 |
| 20 | Efficient parameter sensitivity computation for spatially extended reaction networks. Journal of Chemical Physics, 2017, 146, 044106. | 1.2 | 3 |
| 21 | Zebrafish adult pigment stem cells are multipotent and form pigment cells by a progressive fate restriction process. BioEssays, 2017, 39, 1600234. | 1.2 | 12 |
| 22 | Variable species densities are induced by volume exclusion interactions upon domain growth. Physical Review E, 2017, 95, 032416. | 0.8 | 5 |
| 23 | Using approximate Bayesian computation to quantify cell–cell adhesion parameters in a cell migratory process. Npj Systems Biology and Applications, 2017, 3, 9. | 1.4 | 18 |
| 24 | The effect of domain growth on spatial correlations. Physica A: Statistical Mechanics and Its Applications, 2017, 466, 334-345. | 1.2 | 7 |
| 25 | A Multi-stage Representation of Cell Proliferation as a Markov Process. Bulletin of Mathematical Biology, 2017, 79, 2905-2928. | 0.9 | 70 |
| 26 | How domain growth is implemented determines the long-term behavior of a cell population through its effect on spatial correlations. Physical Review E, 2016, 94, 012408. | 0.8 | 14 |
| 27 | A hybrid algorithm for coupling partial differential equation and compartment-based dynamics. Journal of the Royal Society Interface, 2016, 13, 20160335. | 1.5 | 13 |
| 28 | Extending the Multi-level Method for the Simulation of Stochastic Biological Systems. Bulletin of Mathematical Biology, 2016, 78, 1640-1677. | 0.9 | 12 |
| 29 | Coupling volume-excluding compartment-based models of diffusion at different scales: Voronoi and pseudo-compartment approaches. Journal of the Royal Society Interface, 2016, 13, 20160336. | 1.5 | 8 |
| 30 | Hard-sphere interactions in velocity-jump models. Physical Review E, 2016, 94, 012129. | 0.8 | 7 |
| 31 | Reconciling diverse mammalian pigmentation patterns with a fundamental mathematical model. Nature Communications, 2016, 7, 10288. | 5.8 | 53 |
| 32 | Incorporating pushing in exclusion-process models of cell migration. Physical Review E, 2015, 91, 052711. | 0.8 | 15 |
| 33 | Reconciling transport models across scales: The role of volume exclusion. Physical Review E, 2015, 92, 040701. | 0.8 | 9 |
| 34 | Onset of collective motion in locusts is captured by a minimal model. Physical Review E, 2015, 92, 052708. | 0.8 | 18 |
| 35 | Publisher's Note: Incorporating pushing in exclusion-process models of cell migration [Phys. Rev. E91, 052711 (2015)]. Physical Review E, 2015, 91, . | 0.8 | 1 |
| 36 | The pseudo-compartment method for coupling partial differential equation and compartment-based models of diffusion. Journal of the Royal Society Interface, 2015, 12, 20150141. | 1.5 | 24 |

CHRISTIAN A YATES

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Mathematical modelling of turning delays in swarm robotics. IMA Journal of Applied Mathematics, 2015, 80, 1454-1474. | 0.8 | 16 |
| 38 | Deriving appropriate boundary conditions, and accelerating position-jump simulations, of diffusion using non-local jumping. Physical Biology, 2015, 12, 016006. | 0.8 | 11 |
| 39 | Inference of cell–cell interactions from population density characteristics and cell trajectories on static and growing domains. Mathematical Biosciences, 2015, 264, 108-118. | 0.9 | 15 |
| 40 | Ten Simple Rules for a Successful Cross-Disciplinary Collaboration. PLoS Computational Biology, 2015, 11, e1004214. | 1.5 | 46 |
| 41 | An adaptive multi-level simulation algorithm for stochastic biological systems. Journal of Chemical Physics, 2015, 142, 024113. | 1.2 | 21 |
| 42 | Ten Simple Rules for Effective Computational Research. PLoS Computational Biology, 2014, 10, e1003506. | 1.5 | 47 |
| 43 | Discrete and continuous models for tissue growth and shrinkage. Journal of Theoretical Biology, 2014, 350, 37-48. | 0.8 | 26 |
| 44 | Recycling random numbers in the stochastic simulation algorithm. Journal of Chemical Physics, 2013, 138, 094103. | 1.2 | 14 |
| 45 | Novel Methods for Analysing Bacterial Tracks Reveal Persistence in Rhodobacter sphaeroides. PLoS Computational Biology, 2013, 9, e1003276. | 1.5 | 19 |
| 46 | Importance of the Voronoi domain partition for position-jump reaction-diffusion processes on nonuniform rectilinear lattices. Physical Review E, 2013, 88, 054701. | 0.8 | 6 |
| 47 | Isotropic model for cluster growth on a regular lattice. Physical Review E, 2013, 88, 023304. | 0.8 | 4 |
| 48 | Going from microscopic to macroscopic on nonuniform growing domains. Physical Review E, 2012, 86, 021921. | 0.8 | 37 |
| 49 | Simplified Multitarget Tracking Using the PHD Filter for Microscopic Video Data. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 702-713. | 5.6 | 32 |
| 50 | Modelling Cell Migration and Adhesion During Development. Bulletin of Mathematical Biology, 2012, 74, 2793-2809. | 0.9 | 21 |
| 51 | Look before you leap: A confidence-based method for selecting species criticality while avoiding negative populations in Ï"-leaping. Journal of Chemical Physics, 2011, 134, 084109. | 1.2 | 10 |
| 52 | From Microscopic to Macroscopic Descriptions of Cell Migration on Growing Domains. Bulletin of Mathematical Biology, 2010, 72, 719-762. | 0.9 | 87 |
| 53 | Ergodic directional switching in mobile insect groups. Physical Review E, 2010, 82, 011926. | 0.8 | 14 |
| 54 | Inherent noise can facilitate coherence in collective swarm motion. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5464-5469. | 3.3 | 240 |