Quasi-stationary Distributions: A Bibliography

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Abstract

Quasi-stationary distributions have been used to model the long-term behaviour of stochastic systems which in some sense terminate, but appear to be stationary over any reasonable time scale. Imagine population is observed to be extant at some time $t$. What is the chance of there being precisely $i$ individuals present? If we were equipped with the full set of state probabilities, we would evaluate the probability $u_i(t)$ of the being $i$ individuals present conditional on their being at least 1. It would then be natural for us to seek a distribution $(u_i, i \in S)$ over the set of extant states $S$ such that if $u_i(s) = u_i$ for a particular $s > 0$, then $u_i(t) = u_i$ for all $t > s$. Such a distribution is called a stationary conditional distribution or quasi-stationary distribution. This distribution might then also be a limiting conditional distribution in that $u_i(t) \to u_i$ as $t \to \infty$, and thus be of use in modelling the long-term behaviour of the process.

Yaglom [453] was the first to identify explicitly a limiting conditional distribution, establishing the existence of such for the subcritical Bienaymé-Galton-Watson branching process. However, the idea of a limiting conditional distribution goes back much further, at least to Wright [449, Page 111] in his discussion of gene frequencies in finite populations. The idea of “quasi stationarity” was crystalized by Bartlett [32, Page 38] and he later coined the term “quasi-stationary distribution” [33, Page 24]. But, it was not until the early sixties, and largely stimulated by the remarkable work of Vere-Jones [440], and later Kingman [221], Darroch and Seneta [99], Seneta and Vere-Jones [385], and Darroch and Seneta [100], that a general theory was announced. Since then, quasi-stationary distributions have appeared in a variety of diverse contexts, including chemical reaction kinetics, reliability theory, genetics, epidemics, ecology, finance, and telecommunications, and this work has stimulated further developments in the theory. Modern key papers in the area are Ferrari, Kesten, Martínez and Picco [124] and Kesten [201].

I present here a bibliography of work on quasi-stationary distributions. This includes work on quasi-stationary distributions per se (stationary conditional distributions), limiting conditional distributions (often called quasi-stationary distributions, and also called Yaglom limits and quasi-limiting distributions), the companion topics of geometric and exponential ergodicity, $R$-classification of states and $R$-invariant measures (et cetera), ratio limit theorems, analysis of processes conditioned to stay within a given region (particularly weak convergence of those processes), and papers dealing with diffusion approximations which specifically describe quasi stationarity of evanescent processes.

Published work is cited under various headings. Several works appear under more than one heading. The final section lists the same works in chronological order.
Whilst I do not claim that the bibliography is exhaustive, I do hope that it includes most of the work published on quasi-stationary distributions. I welcome additions and corrections. I would particularly like to hear about Ph.D. theses in the area (they are very difficult to trace). Please e-mail me at pkp@maths.uq.edu.au. I would appreciate it very much if authors would send me BibTeX entries for their work.

This bibliography is maintained at

1 Textbooks

Anderson [10]
Bartlett [33]
Collet, Martínez and San Martín [88]
Gyllenberg and Silvestrov [161]
Kijima [211]
May [276]
Nåsell [295]
Seneta [383]

2 Ph.D. theses

Breyer [54]
Day [101]
Hart [166]
Landon [246]
Parsons [320]
Sirl [395]
Walker [446]

3 Reviews

Méléard and Villemonais [280]
van Doorn and Pollett [431]

4 General theory

This section on the general theory of quasi-stationary distributions also including papers on the related topics of geometric and exponential ergodicity, classifications of states, and ratio limit theorems.

4.1 Ratio limit theory

Cheong [76]
Cohn [84]
Collet, Martínez and San Martín [87]
Doney [112]
Enderle and Hering [116]
Ferrari, Kesten, Martínez and Picco [124]
Foguel [134]
4.2 Discrete-time Markov chains

Al-Eideh [2]
Al-Eideh [3]
Al-Eideh and Al-Towaiq [4]
Al-Towaiq and Al-Eideh [5]
Al-Towaiq and Al-Eideh [6]
Brown [59]
Buckley and Pollett [61]
Buiculescu [63]
Callaert [66]
Coolen-Schrijner and Pollett [91]
Coolen-Schrijner and van Doorn [92]
Darroch and Seneta [99]
Isaacson [183]
Kesten [201]
Kijima [205]
Kijima [209]
Kijima [210]
Lambert [244]
Lasserre and Pearce [247]
Ledoux [249]
Ledoux, Rubino and Sericola [250]
Mandl [267]
Martínez and San Martín [273]
Pollak and Siegmund [333]
Seneta and Vere-Jones [385]
Strunkov [402]
Teugels [409]
Tweedie [425]
Van Doorn and Pollett [430]
Van Doorn and Schrijner [437]
Van Doorn and Schrijner [436]
Vere-Jones [440]
Vere-Jones [441]
Vere-Jones [442]

4.3 Continuous-time Markov chains

Abate and Whitt [1]
Anisimov and Pushkin [12]
Artalejo and Lopez-Herrero [18]
Breyer and Roberts [57]
Buiculescu [62]
Buiculescu [65]
Callaert [66]
Chen and Strook [74]
Coolen-Schrijner, Hart and Pollett [90]
Darlington and Pollett [98]
Darroch and Seneta [100]
Elmes, Pollett and Walker [114]
Elmes, Pollett and Walker [115]
Ferrari, Martínez and Picco [129]
Ferrari, Kesten, Martínez and Picco [124]
Flaspohler [132]
Gray, Pollett and Zhang [154]
Hart and Pollett [169]
Hart and Pollett [168]
Hart and Pollett [170]
Hart, Martínez and San Martín [167]
Jacka and Roberts [185]
Kijima [209]
Kijima [208]
Kijima [210]
Kingman [221]
Kingman [220]
Lambert [244]
Ledoux [249]
Ledoux, Rubino and Sericola [250]
Li and Xiao [256]
Lin, Zhang and Hou [262]
Mei and Lin [279]
Moler, Plo and San Miguel [282]
Nair and Pollett [287]
Nair and Pollett [286]
Pakes [312]
Pakes [316]
Polak and Rolski [332]
Pollett [337]
Pollett [340]
Pollett [341]
Pollett [344]
Pollett [348]
Pollett [349]
Pollett [354]
Pollett [356]
Pollett and Roberts [360]
Pollett and Vere-Jones [363]
Pollett and Zhang [364]
Seneta and Tweedie [384]
Sirl [395]
Steinsaltz Evans [397]
Tweedie [418]
Tweedie [419]
Vere-Jones [443]
Walker [445]
Waugh [448]
Wu [450]
Wu [451]
Wu [452]
Yong [455]

4.4 Semi-Markov and Markov-renewal processes

Arjas and Nummelin [14]
Arjas, Nummelin and Tweedie [15]
Cheong [75]
Cheong [76]
Cheong [78]
Cheong [77]
Flaspohler and Holmes [133]
Gyllenberg and Silvestrov [159]
Nummelin [296]
Nummelin [297]
Petersson [327]
Silvestrov [393]
Teugels [408]

4.5 Markov processes on a general state space

Arjas, Nummelin and Tweedie [15]
Bebbington, Pollett and Zheng [38]
Bertoin [45]
Breyer and Roberts [57]
Enderle and Hering [116]
Folkman and Port [136]
Glover [147]
Groisman and Jonckheere [156]
Haas and Rivero [162]
Isaac [182]
Lambert [244]
Lin [261]
Klebaner, Lazar and Zeitouni [225]
Miura [281]
Nummelin and Arjas [300]
Nummelin and Tweedie [301]
Orey [306]
Pollard and Tweedie [335]
Pollard and Tweedie [336]
Roberts [370]
Tuominen and Tweedie [412]
Tuominen and Tweedie [414]
Tweedie [422]
Tweedie [420]
4.6 Dynamical systems

Berglund and Gentz [43]
Faure and Schreiber [121]
Khasminskii, Yin and Zhang [202]
Li, Yin, Yin and Zhang [257]
Klebaner and Lazar [224]

4.7 Miscellaneous

Asselah and Castell [19]
Asselah and Dai Pra [20]
Asselah and Ferrari [21]
Avrachenkov, Borkar and Nemirovsky [23]
Arguin and Aizenman [13]
Bobrowski [49]
Breyer, Roberts and Rosenthal [53]
Collet, Martínez and Schmitt [89]
Dickman and Vidigal [109]
Ferrari and Martínez [127]
Fierro, Martínez and San Martín [131]
Glynn and Thorisson [148]
Glynn and Thorisson [149]
Green [155]
Gyllenberg and Silvestrov [160]
Huisinga, Meyn and Schütte [178]
Kang and Klotz [188]
Knoth [227]
Kulik and Soulier [229]
Martínez [270]
Móricz [283]
Móricz [284]
O’Neill [304]
Petersen and Schmidt [326]
Ramanan and Zeitouni [368]
Serfling [387]
Turkman [415]
Wang and Wang [447]
Zuparov and Mamadaliev [463]
5 Diffusion approximations

Barbour [26]
Barbour [27]
Barbour [28]
Barbour [29]
Barbour [30]
Barbour [31]
Kurtz [230]
Kurtz [231]
Kurtz [233]
Kurtz [234]
McNeil and Schach [277]

6 Special processes

6.1 Cellular automata

Atman and Dickman [22]
Ferrari, Kesten and Martínez [123]
Martínez [269]

6.2 Birth-death processes

Artalejo and Lopez-Herrero [18]
Callaert and Keilson [68]
Callaert and Keilson [69]
Callaert [67]
Cavender [71]
Chan [72]
Clancy and Pollett [82]
Collet, Martínez, Méleard and San Martín [85]
Coolen-Schrijner and van Doorn [93]
Diaconis and Miclo [107]
Ferrari, Martínez and Picco [128]
Gao and Mao [137]
Good [150]
Keilson and Ramaswamy [191]
Keilson and Ramaswamy [192]
Kesten [200]
Kijima [206]
Kijima [204]
Kijima, Nair, Pollett and van Doorn [216]
Kijima and Seneta [217]
Lambert [244]
Mandl [268]
Martínez [269]
Martínez and Vares [274]
Parthasarathy, Lenin, Schoutens and van Assche [322]
Roberts and Jacka [371]
Roberts, Jacka and Pollett [372]
Schoutens [377]
Schrijner and van Doorn [378]
Van Doorn [427]
Van Doorn [429]
van Doorn [438]
Van Doorn and Schrijner [435]
Van Doorn and Schrijner [434]
Zhang and Liu [456]
Zhang and Zhu [457]

6.3 Branching processes

Bagley [25]
Buiculescu [64]
Cheong [79]
Curien and Peres [94]
Evans [117]
Ezhov and Reshetnyak [120]
Geiger [139]
Heathcote, Seneta and Vere-Jones [172]
Kimmel [219]
Kurtz and Wainger [235]
Lambert [243]
Lambert [244]
Pakes [310]
Pakes [312]
Pakes [313]
Seneta and Vere-Jones [386]
Vatutin and Dyakonova [439]
Yaglom [453]
Zolotarev [462]

6.4 Brownian motion

Awad and Glynn [24]
Collet, Martínez and San Martín [87]
Ferrari, Martínez and San Martín [130]
6.5 Catastrophe processes

Pakes [311]
Pakes and Pollett [317]

6.6 Diffusions and related processes

Cattiaux, Collet, Lambert, Martínez, Méleard and San Martín [70]
Collet, Martínez and San Martín [86]
Kennedy [197]
Kao [189]
Lambert [242]
Pinsky [330]
Pinsky [331]
Jacka and Roberts [184]
Jacka and Roberts [186]
Kyprianou and Palmowski [236]
Lambert [244]
Lladser and San Martín [264]
Steinsaltz and Evans [398]
Villemonais [444]
Ye [454]

6.7 Quasi-birth-death processes

Bean, Bright, Latouche, Pearce, Pollett and Taylor [34]
Bean, Pollett and Taylor [35]
Bean, Pollett and Taylor [36]
Bean, Pollett and Taylor [37]
Pearce [324]

6.8 Queues and related models

Awad and Glynn [24]
Boucherie [51]
6.9 Random walks

Bertoin and Doney [46]
Bertoin and Doney [47]
Bertoin and Doney [48]
Bolthausen [50]
Daley [95]
Doney [110]
Doney [111]
Doney [112]
Iglehart [180]
Iglehart [179]
Kao [189]
Keener [190]
Pakes [309]
Ritter [369]
Seneta [379]
Shimura [389]
Stadje [396]
Szubarga and Szynal [406]
Szubarga and Szynal [405]
Szubarga and Szynal [407]
Zhao and Ying [460]
6.10 Fleming-Viot processes

Ferrari [122]

6.11 CSBP

Labbé [240]

6.12 Contact process

Dickman and de Oliveira [108]
de Oliveira and Dickman [105]
de Oliveira and Ferreira [106]

7 Computational methods

Aldous, Flannery and Palacios [8]
Bebbington [39]
Bebbington [40]
Bebbington and Stewart [41]
Boucherie and van Doorn [52]
Guo and Zhao [157]
de Oliveira and Dickman [104]
Pollett [346]
Pollett and Roberts [360]
Pollett and Stewart [361]

8 Truncation methods

Most of the papers listed in this section concern the evaluation of stationary distributions, but I have included here work which might easily be adapted to handle quasi-stationary distributions.

Breyer and Hart [55]
Breyer and Hart [56]
Gibson and Seneta [143]
Gibson and Seneta [142]
Hart and Tweedie [171]
Pearce and Shin [323]
Seneta [381]
Seneta [382]
Tweedie [417]
Tweedie [418]
9 Applications

9.1 Biology and ecology

Artalejo and Lopez-Herrero [18]
Bartlett [32]
Becker [42]
Buckley and Pollett [60]
Buckley and Pollett [61]
Day and Possingham [102]
Ferrari and Marić [126]
Gilpin and Hanski [144]
Gilpin and Taylor [145]
Gosselin [151]
Gosselin [152]
Grasman [153]
Gyllenberg and Silvestrov [158]
Hanson and Tuckwell [164]
Hanson and Tuckwell [165]
Högnäs [174]
Holling [175]
Klein [226]
Kukhtin, Kuzmenko and Shramko [228]
Lambert [244]
Lambert [245]
Mech [278]
Pakes, Trajstman and Brockwell [318]
Pollett [338]
Pollett [347]
Pollett [350]
Pollett [351]
Pollett [353]
Pollett [352]
Pollett [357]
Pollett [355]
Scheffer [376]
Stirk, Lythe, van den Berg, Hurst and Molina-París [399]
Traqstman [411]

9.2 Chemical kinetics

Dambrine and Moreau [96]
9.3 Epidemics

Andersson and Britton [11]
Artalejo, Economou and Lopez-Herrero [17]
Artalejo, Economou and Lopez-Herrero [16]
Artalejo and Lopez-Herrero [18]
Clancy and Mendy [80]
Clancy, O’Neill and Pollett [81]
Clancy and Pollett [82]
Hernández-Suárez and Castillo-Chavez [173]
Martins, Pinto and Stollenwerk [275]
Nåsell [289]
Nåsell [290]
Nåsell [291]
Nåsell [292]
Nåsell [293]
Nåsell [294]
Ovaskainen [308]
Sani, Kroese and Pollett [375]

9.4 Genetics

Lambert [244]
Lambert [245]
Ewens [118]
Ewens [119]
Kendall [196]
Seneta [380]

9.5 Reliability

Coccozza-Thivent and Roussignol [83]
Kalpakam and Shahul Hameed [187]
Pijnenburg and Ravichandran [328]
Pijnenburg, Ravichandran and Regterschot [329]

9.6 Telecommunications

Anantharam [9]
Gibbens, Hunt and Kelly [141]
Kelly [194]
Kelly [195]
Pollett [343]
Pollett [342]
Pollett [345]
Ziedins [461]

9.7 Medicine

Chan, Pollett and Weinstein [73]

9.8 Neuroscience

Berghlund and Landon [44]
Landon [246]

10 Significant related material

Brockwell, Gani and Resnick [58]
Kelly [193]
Kijima and van Doorn [218]
Ledermann and Reuter [248]
Li and Li [258]
Liu, Zhang and Zhao [263]
Pakes [314]
Pakes [315]
Peng [325]
Pollett [358]
Pollett [359]
Pruitt [366]
Sirl, Zhang and Pollett [394]
Van Doorn and Schrijner [433]
Van Doorn [426]
Van Doorn [428]
11 Chronological order

1947
Yaglom [453]

1951
Scheffer [376]

1954
Ledermann and Reuter [248]

1957
Bartlett [32]
Zolotarev [462]

1958
Waugh [448]

1960
Bartlett [33]
Mandl [267]

1962
Vere-Jones [440]

1963
Albert [7]
Ewens [118]
Kingman [221]
Kingman [220]

1964
Ewens [119]
Kingman and Orey [222]
Mandl [268]
Pruiit [366]

1965
Darroch and Seneta [99]
Port [365]
Pruiit [367]

1966
Folkman and Port [136]
Kendall [196]
Mech [278]
Seneta [379]
Seneta [380]
Seneta and Vere-Jones [385]
Stone [400]

1967
Cheong [75]
Darroch and Seneta [100]
Heathcote, Seneta and Vere-Jones [172]
Isaac [181]
Orey [306]
Papangelou [319]
Seneta [381]
Stone [401]
Vere-Jones [441]

1968
Cheong [76]
Good [150]
Klein [226]
Seneta and Vere-Jones [386]
Seneta [382]
Teugels [409]
Teugels [408]
Vere-Jones [442]

1969
Daley [95]
Foguel [134]
Vere-Jones [443]

1970
Becker [42]
Cheong [78]
Cheong [77]
Kesten [200]
Kesten [199]
Kurtz [230]
Lin [259]
Levitan [251]

1971
Kurtz [231]
Kyprianou [237]
Levitan [252]
Tweedie [417]

1972
Buiculescu [62]
Cheong [79]
Flaspohler and Holmes [133]
Foguel and Lin [135]  
Isaac [181]  
Kesten [199]  
Kingman and Orey [222]  
Levitan [251]  
Levitan [252]  
Lin [259]  
Lin [260]  
Papangelou [319]  
Port [365]  
Pruitt [367]  
Stone [400]  
Stone [401]  

1973  
Buiculescu [63]  
Callaert and Keilson [68]  
Callaert and Keilson [69]  
Holling [175]  
Kurtz and Wainger [235]  
Lamb [241]  
McNeil and Schach [277]  
Pakes [309]  
Tweedie [418]  

1974  
Barbour [26]  
Barbour [27]  
Callaert [66]  
Callaert [67]  
Cohn [84]  
Flaspohler [132]  
Gerl [140]  
Iglehart [180]  
Iglehart [179]  
Kennedy [197]  
Kennedy [197]  
Kersting [198]  
May [276]  
Tweedie [422]  
Tweedie [420]  
Tweedie [421]  
Tweedie [419]  

1975  
Buiculescu [64]  
Malek-Mansour and Nicolis [266]
Narimanjan [288]
Pakes [310]
Pollard and Tweedie [335]
Tweedie [423]
Yong [455]

1976
Barbour [28]
Bolthausen [50]
Kurtz [233]
Lin [261]
Mucci [285]
Nummelin [296]
Nummelin and Arjas [300]
Pollard and Tweedie [336]

1977
Arjas and Nummelin [14]
Green [155]
M´ oricz [283]
Nummelin [297]
Oman [302]
Oppenheim, Schuler and Weiss [305]

1978
Cavender [71]
Evans [117]
Hanson and Tuckwell [164]
Kao [189]
Kao [189]
Kurtz [234]
Nummelin [298]
Nummelin and Tweedie [301]
Oman [303]
Turner and Malek-Mansour [416]

1979
Barbour [29]
Isaacson [183]
Nummelin [299]
Pakes, Trajstman and Brockwell [318]
Tuominen and Tweedie [412]
Tuominen and Tweedie [413]

1980
Arjas, Nummelin and Tweedie [15]
Arjas, Nummelin and Tweedie [15]
Barbour [30]
Barbour [31]
Móricz [284]
Serfling [387]
Šur [403]
Van Doorn [426]

1981

Dambrine and Moreau [96]
Dambrine and Moreau [97]
Hanson and Tuckwell [165]
Ritter [369]
Seneta [383]
Trajstman [411]
Tweedie [424]

1982

Bagley [25]
Brockwell, Gani and Resnick [58]
Enderle and Hering [116]
Zuparov and Mamadaliev [463]

1983

Chen and Strook [74]
Doney [110]
Ezhov and Reshetnyak [120]
Isaac [182]
Kalpakam and Shahul Hameed [187]
Kelly [193]
Šur [404]
Turkman [415]

1984

Keilson and Ramaswamy [191]

1985

Anisimov and Pushkin [12]
Doney [111]
Kelly [194]
Kibkalo [203]
Parsons [320]
Pinsky [330]
Seneta and Tweedie [384]
Szubarga and Szynal [406]
Szubarga and Szynal [405]
Szubarga and Szynal [407]
Van Doorn [427]

1986
Glover [147]
Keilson and Ramaswamy [192]
Pollak and Siegmund [333]
Pollett [337]

1987
Gibson and Seneta [143]
Gibson and Seneta [142]
Kelly [195]
Pakes [311]
Parsons and Pollett [321]
Pollett [338]
Rootzén [373]
Shur [390]
Van Doorn [428]
Ziedins [461]

1988
Aldous, Flannery and Palacios [8]
Jacka and Roberts [184]
Pollett [340]
Pollett [339]
Topolski [410]
Van Doorn and Regterschot [432]

1989
Abate and Whitt [1]
Buiculescu [65]
Pakes and Pollett [317]
Pollett [341]

1990
Al-Eideh and Al-Towaiq [4]
Gibbens, Hunt and Kelly [141]
Pijnenburg and Ravichandran [328]
Pijnenburg, Ravichandran and Regterschot [329]
Pollett and Roberts [360]

1991
Al-Towaiq and Al-Eideh [5]
Anderson [10]
Brown [59]
Ferrari, Martínez and Picco [128]
Gilpin and Hanski [144]
Kijima and Seneta [217]
Näsell [289]
Pollett [344]
Pollett [343]
Pollett [342]
Roberts [370]
Shimura [389]
Van Doorn [429]

1992
Anantharam [9]
Ferrari, Martínez and Picco [129]
Keener [190]
Kijima [206]
Kijima [205]
Kijima and Makimoto [213]
Pollett [345]
Pollett and Vassallo [362]
Pollett and Vere-Jones [363]
Salminen [374]

1993
Hou [176]
Kijima [209]
Kijima [208]
Kijima [207]
Kijima [204]
Klass and Pitman [223]
Nair and Pollett [287]
Nair and Pollett [286]
Makimoto [265]
Martínez [269]
Pakes [312]
Pakes [313]
Pinsky [331]
Pollett [348]
Pollett [346]
Pollett [347]
Van Doorn and Schrijner [433]

1994
Al-Eideh [2]
Al-Towaiq and Al-Eideh [6]
Bertoin and Doney [46]
Bertoin and Doney [47]
Bertoin and Doney [48]
Ferrari and Martínez [127]
Gilpin and Taylor [145]
Gyllenberg and Silvestrov [158]
Housworth [177]
Kijima and Makimoto [214]
Kimmel [219]
Ledoux, Rubino and Sericola [250]
Ledoux, Rubino and Sericola [250]
Martínez and San Martín [272]
Pollett and Stewart [361]
Roberts and Jacka [371]
Tuominen and Tweedie [414]

1995

Al-Eideh [3]
Bebbington [39]
Bebbington, Pollett and Zheng [38]
Collet, Martínez and San Martín [86]
Day [101]
Day and Possingham [102]
Dykman, Horita and Ross [113]
Ferrari, Kesten, Martínez and Picco [124]
Jacka and Roberts [185]
Kesten [201]
Kijima [210]
Kijima and Makimoto [215]
Kijima and van Doorn [218]
Ledoux [249]
Martínez and Vares [274]
Pakes [314]
Pakes [316]
Pollard [334]
Pollett [349]
Van Doorn and Schrijner [435]
Van Doorn and Schrijner [434]
Wang and Wang [447]

1996

Bean, Pollett and Taylor [35]
Bebbington and Stewart [41]
Breyer and Hart [55]
Cocoza-Thivent and Roussignol [83]
Collet, Martínez and Schmitt [89]
Elmes, Pollett and Walker [114]
Ferrari, Kesten and Martínez [123]
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