

## Stirling

### Stirling matrices, triangles

- CanDagli2014, *Extended Bernoulli and Stirling matrices and related combinatorial identities*, Linear Algebra Appl. Vol. 444, Mar 2014, 114-131 arXiv(4 Dec 2013), [aXv>](#)
- Cheon G-S.Kim2001, *Stirling matrix via Pascal matrix*, Linear Algebra Appl. Vol. 329, Issues 1–3, May 2001, 49-59, [gen>](#)
- Cheon G-S.Kim2002, *Factorial Stirling matrix and related combinatorial sequences*, Linear Algebra Appl. Vol. 357, Issues 1-3, Dec 2002, 247-258, [gen>](#)
- Lang2000, *On generalizations of the Stirling number triangles*, J. Integer Seq. Vol. 3 (2000), Article 00.2.4, [jis>](#)

### Stirling functions

- He2011c, *Generalized Stirling numbers and generalized Stirling functions*, arXiv (26 Jun 2011), [aXv>](#)
- ZengZhang1994, *A q-analog of Newton's series, Stirling functions and Eulerian functions*, Results Math. May 1994, Vol. 25, Issue 3-4, 370-391, [gen>](#)

### Stirling-type

- Simsek2013a, *Generating function for generalized Stirling type numbers, array type polynomials, Eulerian type polynomials and their applications*, Fixed Point Theory Appl. 2013, 2013:87, [gen>](#)
- Simsek2013b, *Identities associated with generalized Stirling type numbers and Eulerian type polynomials*, Math. Comput. Appl. Vol. 18, No. 3, 251-263, 2013, [gen>](#)

### Stirling numbers of the 1st kind

- AgohDilcher2015, *Representations of Stirling numbers of the first kind by multiple integrals*, Integers 15 (2015), [gen>](#)
- Gould1961, *The q-Stirling numbers of the first and second kinds*, Duke Math. J. Vol. 28, Number 2 (1961), 281-289, [gen>](#)

### Stirling numbers of the 2d kind

- AgohDilcher2008, *Generalized convolution identities for Stirling numbers of the second kind*, Integers 8 (2008), [gen>](#)
- Branson1996, *An extension of Stirling numbers*, Fibonacci Quart. 1996 (34,3): 213-223, [fibqy>](#)
- ChanManna2010, *Congruences for Stirling numbers of the second kind*, Contemporary Math.-Gems in Experimental Math. Vol. 517, 97-11, [gen>](#)
- Chapman2008, *Lagrange inversion and Stirling number convolutions*, Integers 8 (2008), [gen>](#)

- Davis2013, *p-adic Stirling numbers of the second-kind*, arXiv (29 Jul 2013), [aXv>](#)
- El-Desouky1994, *The multiparameter noncentral Stirling numbers*, Fibonacci Quart. 1994 (32,3): 218-225, [fibqy>](#)
- GuoQi2015b, *An explicit formula for Bernoulli numbers in terms of Stirling numbers of the second kind*, J. Anal. Number Theory, 3, No. 1, 27-30 (2015), [jou>](#)
- Hsu1993, *A summation rule using Stirling numbers of the second kind*, Fibonacci Quart. 1993 (31,3): 256-262, [fibqy>](#)
- KangRyoo2013, *A research on a certain family of numbers and polynomials related to Stirling numbers, central factorial numbers, and Euler numbers*, J. Appl. Math. Vol. 2013 (2013), Article ID 158130, 10 p, [jou>](#)
- KhanKwong1995, *Some invariant and minimum properties of Stirling numbers of the second kind*, Fibonacci Quart. 1995 (33,3): 203-205, [fibqy>](#)
- Kwasniewski2005, *On psi-umbral extensions of Stirling numbers and Dobinski-like formulas*, arXiv (20 Oct 2005), [aXv>](#)
- Lengyel1994, *On the divisibility by 2 of the Stirling numbers of the second kind*, Fibonacci Quart. 1994 (32,3): 194-201, [fibqy>](#)
- LuoSrivastava2011, *Some generalizations of the Apostol–Genocchi polynomials and the Stirling numbers of the second kind*, Appl. Math. Comput. Vol. 217, Issue 12, Feb 2011, 5702-5728, [gen>](#)
- MaltaisGulliver1998, *Pascal matrices and Stirling numbers*, AppL Math. Lett. Vol. 11, Issue 2, Mar 1998, 7-11, [gen>](#)
- QiGuo2014, *Alternative proofs of a formula for Bernoulli numbers in terms of Stirling numbers*, Analysis 2014, 34 (3): 311-317, [gen>](#)
- ShiraiSato2001, *Some identities Involving Bernoulli and Stirling numbers*, J. Number Theory Vol. 90, Issue 1, Sep. 2001, 130-142, [jou>](#)
- Sitgreaves1970, *Some properties of Stirling numbers of the second kind*, The Fibonacci Quarterly 1970 (8,2): 172-181, [fibqy>](#)
- Zhao F-Z.2008, *Some properties of associated Stirling numbers*, J. Integer Seq. Vol. 11 (2008), Article 08.1.7, [jis>](#)
- Zhao J.HongZhao W.2014, *Divisibility by 2 of Stirling numbers of the second kind and their differences*, J. Number Theory, Vol. 140, Jul 2014, 324-348, [jou>](#)

## Stirling (q-)numbers

- BelbachirBousbaa2014a, *Associated Lah numbers and r-Stirling numbers*, arXiv (12 May 2014), [aXv>](#)
- Corcino R.B.Fernandez2014, *A combinatorial approach for q-analogue of r-Stirling Numbers*, British J. of Math. and Computer Sci. BJMCS 4 (9), 1268-1279, 2014, [nat>](#)
- Della Riccia2004, *Inversions relating Stirling, Tanh, Lah numbers and an application to Mathematical Statistics*, arXiv (31May 2004), [aXv>](#)

- Della Riccia2006, *Converting between generalized Bell, Lah, Stirling, and Tanh numbers*, J. Integer Seq. Vol. 9 (2006), Article 06.3.5, [jis>](#)
- Gould1960, *Stirling number representation problems*, Proc. Amer. Math. Soc. Vol. 11, No. 3 (Jun 1960), 447-451, [nat>](#)
- Gould1967, *The Bracket function, q-binomial coefficients, and some new Stirling number formulas*, Fibonacci Quart. 1967 (5,5): 401-423, [fibqy>](#)
- Ehrenborg2003, *Determinants involving q-Stirling numbers*, Adv. Appl. Math. Vol. 31, Issue 4, Nov. 2003, 630–642, [gen>](#)
- El-Desouky1994, *The multiparameter noncentral Stirling numbers*, Fibonacci Quart. 1994 (32,3): 218-225, [fibqy>](#)
- Ernst2008a, *q-Stirling numbers, an umbral approach*, Adv. Dyn. Syst. Appl. Vol. 3, No. 2, 251-282 (2008), [gen>](#)
- Fielder1968, *Generation of Stirling numbers by means of special partitions of numbers*, Fibonacci Quart. 1968 (6,5): 1-9, [fibqy>](#)
- Gould1961, *The q-Stirling numbers of the first and second kinds*, Duke Math. J. Vol. 28, Number 2 (1961), 281-289, [gen>](#)
- Kim2007b, *Carlitz q-Bernoulli numbers and q-Stirling numbers*, arXiv (24 Aug 2007), [aXv>](#)
- Kim2008, *q-Bernoulli numbers associated with q-Stirling numbers*, Adv. Difference Equ. Vol. 2008, Article ID 743295, 10 p, [gen>](#)
- Kim2010a, *q-Bernstein polynomials, q-Stirling numbers and q-Bernoulli polynomials*, arXiv (26 Aug 2010), [aXv>](#)
- KsavrelofZeng2002, *Nouvelles statistiques de partitions pour les q-nombres de Stirling de seconde espèce*, Discrete Math. Vol. 256, Issue 3, 28 Oct 2002, 743-758, [gen>](#)
- Miceli2011, *Two q-analogues of poly-Stirling numbers*, J. Integer Seq. Vol. 14 (2011), Article 11.9.6, [jis>](#)
- SonJang1999, *On q-analogues of Stirling series*, Comm. Korean Math. Soc. **14** (1999), No. 1, 57-68, [nat>](#)
- Sun Z-W.2007, *Combinatorial congruences and Stirling numbers*, Acta Arith. 126 (2007), no. 4, 387-398, [gen>](#)
- Zeng J.1995, *The q-Stirling numbers, continued fractions and the q-Charlier and q-Laguerre polynomials*, J. Comp. Appl. Math. Vol. 57, Issue 3, Feb 1995, 413-424, [jou>](#)

## Stirling polynomials

- Adelberg1995, *A finite difference approach to degenerate Bernoulli and Stirling polynomials*, Discrete Math. 140 (1995) 1-21, [gen>](#)
- Chadel1977, *Generalized Stirling numbers and polynomials*, Publications de l'Institut Mathématique (1977) Vol. 22(36), Issue: 42, 43-48, [nat>](#)

- He2006, *The generalized Stirling numbers, Sheffer-type polynomials and expansion theorems*, CBMS/NSF Regional Research Conference, Kent, Aug 2006, [gen>](#)
- He2011c, *Generalized Stirling numbers and generalized Stirling functions*, arXiv (26 Jun 2011), [aXv>](#)
- He2012a, *A unified approach to generalized Stirling functions*, J. Mathematical Research with Appl. Nov. 2012, Vol. 32, No. 6, 631-646, [iou>](#)
- Howard1979, *Bell polynomials and degenerate Stirling numbers*, Rend. Semin. Mat. Univ. Padova, tome 61 (1979), 203-219, [nat>](#)
- Howard1980, *Associated Stirling numbers*, Fibonacci Quart. 1980 (18,4): 303-315, [fibqy>](#)
- Howard1984, *Weighted associated Stirling numbers*, Fibonacci Quart. 1984 (22,2): 156-165, [fibqy>](#)
- HsuShiue1998, *A unified approach to generalized Stirling numbers*, Advances in Applied Math. Vol. 20, Issue 3, Apr 1998, 366-384, [gen>](#)
- KangRyoo2013, *A research on a certain family of numbers and polynomials related to Stirling numbers, central factorial numbers, and Euler numbers*, J. Appl. Math. Vol. 2013 (2013), Article ID 158130, 10 p, [iou>](#)
- Kwasniewski2005, *On psi-umbral extensions of Stirling numbers and Dobinski-like formulas*, arXiv (20 Oct 2005), [aXv>](#)
- Lang2009, *Combinatorial interpretation of generalized Stirling numbers*, J. Integer Seq. Vol. 12 (2009), Article 09.3.3, [jis>](#)
- Pan2013, *Convolution properties of the generalized Stirling numbers and the Jacobi-Stirling numbers of the first kind*, J. Integer Seq. Vol. 16 (2013), Article 13.9.2, [jis>](#)
- Simsek2013b, *Identities associated with generalized Stirling type numbers and Eulerian type polynomials*, Math. Comput. Appl. Vol. 18, No. 3, 251-263, 2013, [gen>](#)

### **Stirling generalized (-q)numbers, generalized (q-)polynomials**

- Barry2014a, *Generalized Stirling numbers, exponential Riordan arrays, and Toda chain equations*, J. Integer Seq. Vol. 17 (2014), Article 14.2.3, [jis>](#)
- BelbachirBelkhirBousbaa2014, *Combinatorial approach of certain generalized Stirling numbers*, arXiv (23 Nov 2014), [aXv>](#)
- Bickel2003, *The group of generalized Stirling numbers*, Adv. in Appl. Math. Vol. 26, Issue 1, Jan. 2001, 1-22, [gen>](#)
- CakicEl-DesoukyMilovanovic2013, *Explicit formulas and combinatorial identities for generalized Stirling numbers*, Mediterr. J. Math. Feb 2013, Vol. 10, Issue 1, 57-72, [nat>](#)
- CakicMilovanovic2004, *On generalized Stirling numbers and polynomials*, Math. Balkanica (N.S.) Vol. 18, 2004, Fasc. 3-4, [nat>](#)

- Carlitz1978a, *Generalized Stirling and related numbers*, Rivista di Matematica della Università di Parma. Serie IV 01/1978; 4., [nat>](#)
- Corcino R.B.Barrientos2011, *Some theorems on the q-analogue of the generalized Stirling numbers*, Bull. Malays. Math. Sci. Soc. (2) 34(3) (2011), 487-501, [nat>](#)
- He2011c, *Generalized Stirling numbers and generalized Stirling functions*, arXiv (26 Jun 2011), [aXv>](#)
- MansourSchorkShattuck2012, *The generalized Stirling and Bell numbers revisited*, J. Integer Seq., Vol. 15 (2012), Article 12.8.3, [jis>](#)
- Pan2012, *Matrix decomposition of the unified generalized Stirling nbs. and inversion of the generalized factorial matrices*, J. Integer Seq. Vol. 15 (2012), Article 12.6.6, [jis>](#)
- Pan2013, *Convolution properties of the generalized Stirling numbers and the Jacobi-Stirling numbers of the first kind*, J. Integer Seq. Vol. 16 (2013), Article 13.9.2, [jis>](#)
- SixdeniersPensonSolomon2001, *Extended Bell and Stirling numbers from hypergeometric exponentiation*, J. Integer Seq. Vol. 4 (2001), Article 01.1.4, [jis>](#)
- Toscano1978, *Some results for generalized Bernoulli, Euler, Stirling numbers*, Fibonacci Quart. 1978 (16,2): 103-111, [fibay>](#)
- Wagner1996, *Generalized Stirling and Lah numbers*, Discrete Math. Vol. 160, Issues 1–3, 15 Nov 1996, 199-218, [gen>](#)

### *Apostol-Genocchi*

- LuoSrivastava2011, *Some generalizations of the Apostol–Genocchi polynomials and the Stirling numbers of the second kind*, Appl. Math. Comput. Vol. 217, Issue 12, Feb 2011, 5702-5728, [gen>](#)

### *array type polynomials*

- Simsek2013a, *Generating function for generalized Stirling type numbers, array type polynomials, Eulerian type polynomials and their applications*, Fixed Point Theory Appl. 2013, 2013:87, [gen>](#)

### *Bell*

- MansourSchorkShattuck2012, *The generalized Stirling and Bell numbers revisited*, J. Integer Seq., Vol. 15 (2012), Article 12.8.3, [jis>](#)
- SixdeniersPensonSolomon2001, *Extended Bell and Stirling numbers from hypergeometric exponentiation*, J. Integer Seq. Vol. 4 (2001), Article 01.1.4, [jis>](#)

### *Bernoulli*

- CanDagli2014, *Extended Bernoulli and Stirling matrices and related combinatorial identities*, Linear Algebra Appl. Vol. 444, Mar 2014, 114-131 arXiv(4 Dec 2013), [aXv>](#)
- QiGuo2014, *Alternative proofs of a formula for Bernoulli numbers in terms of Stirling numbers*, Analysis 2014, 34 (3): 311-317, [gen>](#)
- GuoQi2015b, *An explicit formula for Bernoulli numbers in terms of Stirling numbers of the second kind*, J. Anal. Number Theory, 3, No. 1, 27-30 (2015), [jou>](#)
- ShiraiSato2001, *Some identities Involving Bernoulli and Stirling numbers*, J. Number Theory Vol. 90, Issue 1, Sep. 2001, 130-142, [jou>](#)
- Toscano1978, *Some results for generalized Bernoulli, Euler, Stirling numbers*, Fibonacci Quart. 1978 (16,2): 103-111, [fibqy>](#)

### *central factorial numbers*

- KangRyoo2013, *A research on a certain family of numbers and polynomials related to Stirling numbers, central factorial numbers, and Euler numbers*, J. Appl. Math. Vol. 2013 (2013), Article ID 158130, 10 p, [jou>](#)

### *Charlier*

- Zeng J.1995, *The q-Stirling numbers, continued fractions and the q-Charlier and q-Laguerre polynomials*, J. Comp. Appl. Math. Vol. 57, Issue 3, Feb 1995, 413-424, [jou>](#)

### *combinatorial theory*

- CanDagli2014, *Extended Bernoulli and Stirling matrices and related combinatorial identities*, Linear Algebra Appl. Vol. 444, Mar 2014, 114-131 arXiv(4 Dec 2013), [aXv>](#)
- CakicEl-DesoukyMilovanovic2013, *Explicit formulas and combinatorial identities for generalized Stirling numbers*, *Mediterr. J. Math.* Feb 2013, Vol. 10, Issue 1, 57-72, [nat>](#)
- Cheon G-S.Kim2002, *Factorial Stirling matrix and related combinatorial sequences*, Linear Algebra Appl. Vol. 357, Issues 1–3, Dec 2002, 247-258, [gen>](#)

### *continued fractions*

- Zeng J.1995, *The q-Stirling numbers, continued fractions and the q-Charlier and q-Laguerre polynomials*, J. Comp. Appl. Math. Vol. 57, Issue 3, Feb 1995, 413-424, [jou>](#)

### *convolution*

- AgohDilcher2008, *Generalized convolution identities for Stirling numbers of the second kind*, *Integers* 8 (2008), [gen>](#)
- Chapman2008, *Lagrange inversion and Stirling number convolutions*, *Integers* 8 (2008), [gen>](#)

- Pan2013, *Convolution properties of the generalized Stirling numbers and the Jacobi-Stirling numbers of the first kind*, J. Integer Seq. Vol. 16 (2013), Article 13.9.2, [jis>](#)

## Dobinski

- Kwasniewski2005, *On psi-umbral extensions of Stirling numbers and Dobinski-like formulas*, arXiv (20 Oct 2005), [arXv>](#)

## Euler

- KangRyoo2013, *A research on a certain family of numbers and polynomials related to Stirling numbers, central factorial numbers, and Euler numbers*, J. Appl. Math. Vol. 2013 (2013), Article ID 158130, 10 p, [iou>](#)
- Toscano1978, *Some results for generalized Bernoulli, Euler, Stirling numbers*, Fibonacci Quart. 1978 (16,2): 103-111, [fibqy>](#)

## Eulerian

- Simsek2013a, *Generating function for generalized Stirling type numbers, array type polynomials, Eulerian type polynomials and their applications*, Fixed Point Theory Appl. 2013, 2013:87, [gen>](#)
- Simsek2013b, *Identities associated with generalized Stirling type numbers and Eulerian type polynomials*, Math. Comput. Appl. Vol. 18, No. 3, 251-263, 2013, [gen>](#)
- ZengZhang1994, *A q-analog of Newton's series, Stirling functions and Eulerian functions*, Results Math. May 1994, Vol. 25, Issue 3-4, 370-391, [gen>](#)

## factorial generalizations (q-)numbers, (q-)polynomials

- Di NardoSenato2006, *An umbral setting for cumulants and factorial moments*, European J. Combin. Vol. 27, Issue 3, Apr 2006, 394-413, [gen>](#)
- Pan2012, *Matrix decomposition of the unified generalized Stirling nbs. and inversion of the generalized factorial matrices*, J. Integer Seq. Vol. 15 (2012), Article 12.6.6, [jis>](#)
- Schmidt2010, *Generalized j-Factorial Functions, Polynomials, and Applications*, J. Integer Seq. Vol. 13 (2010), Article 10.6.7, [jis>](#)
- SongCheonJunBeasley2010, *A q-analogue of thee generalized factorial numbers*, J. Korean Math. Soc. 47 (2010), No. 3, 645-657, [nat>](#)
- Young2008, *Degenerate Bernoulli polynomials, generalized factorial sums, and their applications*, J. Number Theory Vol. 128, Issue 4, Apr 2008, 738-758, [iou>](#)

## generating functions

- Simsek2013a, *Generating function for generalized Stirling type numbers, array type polynomials, Eulerian type polynomials and their applications*, Fixed Point Theory Appl. 2013, 2013:87, [gen>](#)

## hypergeometric

- SixdeniersPensonSolomon2001, *Extended Bell and Stirling numbers from hypergeometric exponentiation*, J. Integer Seq. Vol. 4 (2001), Article 01.1.4, [jis>](#)

## *identities, inequalities*

- AgohDilcher2008, *Generalized convolution identities for Stirling numbers of the second kind*, Integers 8 (2008), [gen>](#)
- CanDagli2014, *Extended Bernoulli and Stirling matrices and related combinatorial identities*, Linear Algebra Appl. Vol. 444, Mar 2014, 114-131 arXiv(4 Dec 2013), [aXv>](#)
- CakicEl-DesoukyMilovanovic2013, *Explicit formulas and combinatorial identities for generalized Stirling numbers*, *Mediterr. J. Math.* Feb 2013, Vol. 10, Issue 1, 57-72, [nat>](#)
- ShiraiSato2001, *Some identities Involving Bernoulli and Stirling numbers*, *J. Number Theory* Vol. 90, Issue 1, Sep. 2001, 130-142, [jou>](#)
- Simsek2013b, *Identities associated with generalized Stirling type numbers and Eulerian type polynomials*, *Math. Comput. Appl.* Vol. 18, No. 3, 251-263, 2013, [gen>](#)

## *inversion techniques*

- Chapman2008, *Lagrange inversion and Stirling number convolutions*, Integers 8 (2008), [gen>](#)

## *Jacobi-Stirling*

- Pan2013, *Convolution properties of the generalized Stirling numbers and the Jacobi-Stirling numbers of the first kind*, J. Integer Seq. Vol. 16 (2013), Article 13.9.2, [jis>](#)

## *Laguerre*

- Zeng J.1995, *The  $q$ -Stirling numbers, continued fractions and the  $q$ -Charlier and  $q$ -Laguerre polynomials*, J. Comp. Appl. Math. Vol. 57, Issue 3, Feb 1995, 413-424, [jou>](#)

## *Lah*

- BelbachirBousbaa2014a, *Associated Lah numbers and  $r$ -Stirling numbers*, arXiv (12 May 2014), [aXv>](#)
- Wagner1996, *Generalized Stirling and Lah numbers*, Discrete Math. Vol. 160, Issues 1–3, 15 Nov 1996, 199-218, [gen>](#)

## *Newton series*

- ZengZhang1994, *A  $q$ -analog of Newton's series, Stirling functions and Eulerian functions*, Results Math. May 1994, Vol. 25, Issue 3-4, 370-391, [gen>](#)

## *Pascal*

- Cheon G-S.Kim2001, *Stirling matrix via Pascal matrix*, Linear Algebra Appl. Vol. 329, Issues 1–3, May 2001, 49-59, [gen>](#)

- MaltaisGulliver1998, *Pascal matrices and Stirling numbers*, Appl Math. Lett. Vol. 11, Issue 2, Mar 1998, 7-11, [gen>](#)
- Yang S-L.You2007, *On a connection between the Pascal, Stirling and Vandermonde matrices*, Discrete Applied Math. Vol. 155, Issue 15, Sep 2007, 2025-2030, [gen>](#)

### *Toda chain*

- Barry2014a, *Generalized Stirling numbers, exponential Riordan arrays, and Toda chain equations*, J. Integer Seq. Vol. 17 (2014), Article 14.2.3, [jis>](#)

### *Umbral calculus*

- Kwasniewski2005, *On psi-umbral extensions of Stirling numbers and Dobinski-like formulas*, arXiv (20 Oct 2005), [aXv>](#)

### *Vandermonde*

- Yang S-L.You2007, *On a connection between the Pascal, Stirling and Vandermonde matrices*, Discrete Applied Math. Vol. 155, Issue 15, Sep 2007, 2025-2030, [gen>](#)