

# Peter D Claes

## List of Publications by Year in descending order

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Version: 2024-02-01

140  
papers

3,788  
citations

126858

33  
h-index

161767

54  
g-index

159  
all docs

159  
docs citations

159  
times ranked

3619  
citing authors

#	ARTICLE	IF	CITATIONS
1	Facial asymmetry assessment in skeletal Class III patients with spatially-dense geometric morphometrics. <i>European Journal of Orthodontics</i> , 2022, 44, 155-162.	1.1	7
2	Matching 3D Facial Shape to Demographic Properties by Geometric Metric Learning: A Part-Based Approach. <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , 2022, 4, 163-172.	3.8	4
3	U.S. Adult Perspectives on Facial Images, DNA, and Other Biometrics. <i>IEEE Transactions on Technology and Society</i> , 2022, 3, 9-15.	2.4	3
4	Bloodstain impact pattern Area of Origin estimation using least-squares angles: A HemoVision validation study. <i>Forensic Science International</i> , 2022, 333, 111211.	1.3	0
5	Multi-Scale Part-Based Syndrome Classification of 3D Facial Images. <i>IEEE Access</i> , 2022, 10, 23450-23462.	2.6	3
6	Genetic variants underlying differences in facial morphology in East Asian and European populations. <i>Nature Genetics</i> , 2022, 54, 403-411.	9.4	20
7	Principal Polynomial Shape Analysis: a non-linear tool for Statistical Shape Modeling. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 220, 106812.	2.6	4
8	Static and Motion Facial Analysis for Craniofacial Assessment and Diagnosing Diseases. <i>Annual Review of Biomedical Data Science</i> , 2022, 5, .	2.8	3
9	Decoding the Human Face: Progress and Challenges in Understanding the Genetics of Craniofacial Morphology. <i>Annual Review of Genomics and Human Genetics</i> , 2022, 23, 383-412.	2.5	20
10	Automated assessment of mandibular shape asymmetry in 3-dimensions. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2022, 161, 698-707.	0.8	4
11	TWIST1 interacts with $\beta$ -catenins during neural tube development and regulates fate transition in cranial neural crest cells. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	4
12	Determination of pre-arthropathy scapular anatomy with a statistical shape model: part I rotator cuff tear arthropathy. <i>Journal of Shoulder and Elbow Surgery</i> , 2021, 30, 1095-1106.	1.2	10
13	Effects of Male Facial Masculinity on Perceived Attractiveness. <i>Adaptive Human Behavior and Physiology</i> , 2021, 7, 73-88.	0.6	10
14	Insights into the genetic architecture of the human face. <i>Nature Genetics</i> , 2021, 53, 45-53.	9.4	94
15	Unsupervised Diffeomorphic Surface Registration and Non-linear Modelling. <i>Lecture Notes in Computer Science</i> , 2021, , 118-128.	1.0	1
16	Impact of low-frequency coding variants on human facial shape. <i>Scientific Reports</i> , 2021, 11, 748.	1.6	3
17	Fluctuating Asymmetry and Sexual Dimorphism in Human Facial Morphology: A Multi-Variate Study. <i>Symmetry</i> , 2021, 13, 304.	1.1	6
18	The Intersection of the Genetic Architectures of Orofacial Clefts and Normal Facial Variation. <i>Frontiers in Genetics</i> , 2021, 12, 626403.	1.1	10

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19	Investigating automatic emotion processing in boys with autism via eye tracking and facial mimicry recordings. <i>Autism Research</i> , 2021, 14, 1404-1420.	2.1	5
20	An exploration of adolescent facial shape changes with age via multilevel partial least squares regression. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 200, 105935.	2.6	6
21	Shared heritability of human face and brain shape. <i>Nature Genetics</i> , 2021, 53, 830-839.	9.4	57
22	The PAX1 locus at 20p11 is a potential genetic modifier for bilateral cleft lip. <i>Human Genetics and Genomics Advances</i> , 2021, 2, 100025.	1.0	9
23	3D facial phenotyping by biometric sibling matching used in contemporary genomic methodologies. <i>PLoS Genetics</i> , 2021, 17, e1009528.	1.5	13
24	Large-scale open-source three-dimensional growth curves for clinical facial assessment and objective description of facial dysmorphism. <i>Scientific Reports</i> , 2021, 11, 12175.	1.6	17
25	Automated landmarking for palatal shape analysis using geometric deep learning. <i>Orthodontics and Craniofacial Research</i> , 2021, , .	1.2	3
26	3D analysis of facial morphology in Dutch children with cancer. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 205, 106093.	2.6	1
27	Exploring palatal and dental shape variation with 3D shape analysis and geometric deep learning. <i>Orthodontics and Craniofacial Research</i> , 2021, 24, 134-143.	1.2	12
28	Genome scans of facial features in East Africans and cross-population comparisons reveal novel associations. <i>PLoS Genetics</i> , 2021, 17, e1009695.	1.5	13
29	3D Facial Matching by Spiral Convolutional Metric Learning and a Biometric Fusion-Net of Demographic Properties. , 2021, , .		4
30	Ischiofemoral impingement: the evolutionary cost of pelvic obstetric adaptation. <i>Journal of Hip Preservation Surgery</i> , 2021, 7, 677-687.	0.6	7
31	A survey of U.S. public perspectives on facial recognition technology and facial imaging data practices in health and research contexts. <i>PLoS ONE</i> , 2021, 16, e0257923.	1.1	10
32	Multilevel principal components analysis of three-dimensional facial growth in adolescents. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 188, 105272.	2.6	6
33	The effect of manual lymphatic drainage on patient recovery after orthognathic surgeryâ€”A qualitative and 3-dimensional facial analysis. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2020, 130, 478-485.	0.2	4
34	Three-dimensional facial capture using a custom-built photogrammetry setup: Design, performance, and cost. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2020, 158, 286-299.	0.8	5
35	Robust genome-wide ancestry inference for heterogeneous datasets: illustrated using the 1,000 genome project with 3D facial images. <i>Scientific Reports</i> , 2020, 10, 11850.	1.6	7
36	The Effect of Autologous Alveolar Bone Grafting on Nasolabial Asymmetry in Unilateral Cleft Lip and Palate. <i>Journal of Craniofacial Surgery</i> , 2020, 31, 1687-1691.	0.3	4

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37	Pitfalls and Promise of 3-dimensional Image Comparison for Craniofacial Surgical Assessment. Plastic and Reconstructive Surgery - Global Open, 2020, Publish Ahead of Print, e2847.	0.3	10
38	No evidence for an association between facial fluctuating asymmetry and vocal attractiveness in men or women. Evolutionary Human Sciences, 2020, 2, .	0.9	2
39	Sources of variation in the 3dMDface and Vectra H1 3D facial imaging systems. Scientific Reports, 2020, 10, 4443.	1.6	22
40	A Multivariate Approach to Determine the Dimensionality of Human Facial Asymmetry. Symmetry, 2020, 12, 348.	1.1	9
41	Separating positional noise from neutral alignment in multicomponent statistical shape models. Bone Reports, 2020, 12, 100243.	0.2	8
42	Accurate reconstructions of pelvic defects and discontinuities using statistical shape models. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 1026-1033.	0.9	10
43	Mechanics of Psoas Tendon Snapping. A Virtual Population Study. Frontiers in Bioengineering and Biotechnology, 2020, 8, 264.	2.0	6
44	3D assessment of mandibular skeletal effects produced by the Herbst appliance. BMC Oral Health, 2020, 20, 117.	0.8	10
45	Rapid neural categorization of angry and fearful faces is specifically impaired in boys with autism spectrum disorder. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2020, 61, 1019-1029.	3.1	19
46	Lack of Correlation between Facial Sexual Dimorphism, Fluctuating Asymmetry and Self-Perceived Attractiveness in Men and Women. Symmetry, 2020, 12, 236.	1.1	4
47	Facial Morphological Changes Following Denture Treatment in Children with Hypohidrotic Ectodermal Dysplasia. Pediatric Dentistry (discontinued), 2020, 42, 315-320.	0.4	2
48	An automatic approach for classification and categorisation of lip morphological traits. PLoS ONE, 2019, 14, e0221197.	1.1	5
49	Facial recognition from DNA using face-to-DNA classifiers. Nature Communications, 2019, 10, 2557.	5.8	46
50	Hunting for genes that shape human faces: Initial successes and challenges for the future. Orthodontics and Craniofacial Research, 2019, 22, 207-212.	1.2	22
51	MeshMonk: Open-source large-scale intensive 3D phenotyping. Scientific Reports, 2019, 9, 6085.	1.6	92
52	Quantification of mandibular sexual dimorphism during adolescence. Journal of Anatomy, 2019, 234, 709-717.	0.9	18
53	Three-dimensional Morphing and Its Added Value in the Rhinoplasty Consult. Plastic and Reconstructive Surgery - Global Open, 2019, 7, e2063.	0.3	22
54	Statistical Shape Modeling of Skeletal Anatomy for Sex Discrimination: Their Training Size, Sexual Dimorphism, and Asymmetry. Frontiers in Bioengineering and Biotechnology, 2019, 7, 302.	2.0	47

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55	An overview of the latest developments in facial imaging. <i>Forensic Sciences Research</i> , 2019, 4, 10-28.	0.9	31
56	Facial masculinity does not appear to be a condition-dependent male ornament and does not reflect MHC heterozygosity in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1633-1638.	3.3	46
57	Marker-based watershed transform method for fully automatic mandibular segmentation from CBCT images. <i>Dentomaxillofacial Radiology</i> , 2019, 48, 20180261.	1.3	36
58	Estimating age and synthesising growth in children and adolescents using 3D facial prototypes. <i>Forensic Science International</i> , 2018, 286, 61-69.	1.3	14
59	Modelling 3D craniofacial growth trajectories for population comparison and classification illustrated using sex-differences. <i>Scientific Reports</i> , 2018, 8, 4771.	1.6	53
60	Genome-wide mapping of global-to-local genetic effects on human facial shape. <i>Nature Genetics</i> , 2018, 50, 414-423.	9.4	205
61	Noise-robust assessment of SNP array based CNV calls through local noise estimation of log R ratios. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2018, 17, .	0.2	0
62	Facial morphology and growth following surgery for congenital midline cervical cleft patients. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2018, 47, 437-441.	0.7	6
63	Statistical Shape Modeling of the Left Ventricle: Myocardial Infarct Classification Challenge. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 503-515.	3.9	61
64	SNPs Associated With Testosterone Levels Influence Human Facial Morphology. <i>Frontiers in Genetics</i> , 2018, 9, 497.	1.1	23
65	Six NSCL/P Loci Show Associations With Normal-Range Craniofacial Variation. <i>Frontiers in Genetics</i> , 2018, 9, 502.	1.1	20
66	Measuring asymmetry from high-density 3D surface scans: An application to human faces. <i>PLoS ONE</i> , 2018, 13, e0207895.	1.1	25
67	Spatially Dense 3D Facial Heritability and Modules of Co-heritability in a Father-Offspring Design. <i>Frontiers in Genetics</i> , 2018, 9, 554.	1.1	12
68	Olfactory function in patients with nonsyndromic orofacial clefts and their unaffected relatives. <i>American Journal of Medical Genetics, Part A</i> , 2018, 176, 2375-2381.	0.7	1
69	Fluctuating Asymmetry, Sexual Dimorphism and Attractiveness in Humans: The Development towards a 3D Approach. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	0
70	Preprocessing of Heteroscedastic Medical Images. <i>IEEE Access</i> , 2018, 6, 26047-26058.	2.6	3
71	Mapping the Spectrum of Prenatal Alcohol Effects with Dense Surface Models of the Face and Brain. <i>Alcoholism: Clinical and Experimental Research</i> , 2018, 42, 1880-1882.	1.4	0
72	Population genomics of Mesolithic Scandinavia: Investigating early postglacial migration routes and high-latitude adaptation. <i>PLoS Biology</i> , 2018, 16, e2003703.	2.6	174

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73	Association Between Prenatal Alcohol Exposure and Craniofacial Shape of Children at 12 Months of Age. <i>JAMA Pediatrics</i> , 2017, 171, 771.	3.3	88
74	Prehensile and non-prehensile tails among syngnathid fishes: what's the difference?. <i>Zoology</i> , 2017, 120, 62-72.	0.6	8
75	Testing the face shape hypothesis in twins discordant for nonsyndromic orofacial clefting. <i>American Journal of Medical Genetics, Part A</i> , 2017, 173, 2886-2892.	0.7	7
76	A Comprehensive Craniofacial Study of 22q11.2 Deletion Syndrome. <i>Journal of Dental Research</i> , 2017, 96, 1386-1391.	2.5	26
77	Hierarchical spectral clustering of MRI for global-to-local shape analysis: Applied to brain variations in Alzheimer's disease. , 2017, , .		4
78	Are there vocal cues to human developmental stability? Relationships between facial fluctuating asymmetry and voice attractiveness. <i>Evolution and Human Behavior</i> , 2017, 38, 249-258.	1.4	59
79	About Face: Matching Unfamiliar Faces Across Rotations of View and Lighting. <i>I-Perception</i> , 2017, 8, 204166951774422.	0.8	11
80	Notice of Removal: Machine learning to understand anthropomorphic modulators of spatiotemporal myocardial mechanics. , 2017, , .		1
81	Investigating the case of human nose shape and climate adaptation. <i>PLoS Genetics</i> , 2017, 13, e1006616.	1.5	75
82	A Phenotypically Driven Segmentation for 3-D Facial Morphology: Modularity of 3-D Faces Through Spectral Clustering. , 2017, , .		0
83	Exploring the Underlying Genetics of Craniofacial Morphology through Various Sources of Knowledge. <i>BioMed Research International</i> , 2016, 2016, 1-9.	0.9	50
84	New Entries in the Lottery of Facial GWAS Discovery. <i>PLoS Genetics</i> , 2016, 12, e1006250.	1.5	7
85	Spatially dense morphometrics of craniofacial sexual dimorphism in 1-year-olds. <i>Journal of Anatomy</i> , 2016, 229, 549-559.	0.9	26
86	Three-Dimensional Surface Imaging and the Continuous Evolution of Preoperative and Postoperative Assessment in Rhinoplasty. <i>Facial Plastic Surgery</i> , 2016, 32, 088-094.	0.5	46
87	Evolution of Preoperative Rhinoplasty Consult by Computer Imaging. <i>Facial Plastic Surgery</i> , 2016, 32, 080-087.	0.5	29
88	Human Centric Recognition of 3D Ear Models. <i>International Journal of Computational Intelligence Systems</i> , 2016, 9, 296.	1.6	3
89	Automatic Detection of Myocardial Infarction Through a Global Shape Feature Based on Local Statistical Modeling. <i>Lecture Notes in Computer Science</i> , 2016, , 208-216.	1.0	1
90	Facial Characteristics and Olfactory Dysfunction: Two Endophenotypes Related to Nonsyndromic Cleft Lip and/or Palate. <i>BioMed Research International</i> , 2015, 2015, 1-8.	0.9	12

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91	An investigation of matching symmetry in the human pinnae with possible implications for 3D ear recognition and sound localization. <i>Journal of Anatomy</i> , 2015, 226, 60-72.	0.9	22
92	HemoVision: An automated and virtual approach to bloodstain pattern analysis. <i>Forensic Science International</i> , 2015, 251, 116-123.	1.3	18
93	Phenotyping: Targeting genotype's rich cousin for diagnosis. <i>Journal of Paediatrics and Child Health</i> , 2015, 51, 381-386.	0.4	29
94	Monitoring of Therapy for Mucopolysaccharidosis Type I Using Dymorphometric Facial Phenotypic Signatures. <i>JIMD Reports</i> , 2015, 22, 99-106.	0.7	7
95	A PLS Regression Framework for Spatially-dense Geometric Morphometrics to Analyze Effects on Shape and Shape Characteristics: Applied to the Study of Genomic Ancestry and Sex on Facial Morphology. , 2015, , .		1
96	Robust Generalized Superimposition Methods: A Comparison Using 3D Facial Images. , 2015, , .		0
97	Modeling 3D Facial Shape from DNA. <i>PLoS Genetics</i> , 2014, 10, e1004224.	1.5	190
98	Establishing a Multidisciplinary Context for Modeling 3D Facial Shape from DNA. <i>PLoS Genetics</i> , 2014, 10, e1004725.	1.5	12
99	Toward DNA-based facial composites: Preliminary results and validation. <i>Forensic Science International: Genetics</i> , 2014, 13, 208-216.	1.6	61
100	A spatially-dense regression study of facial form and tissue depth: Towards an interactive tool for craniofacial reconstruction. <i>Forensic Science International</i> , 2014, 234, 103-110.	1.3	54
101	Calculation of bloodstain impact angles using an Active Bloodstain Shape Model. <i>Journal of Forensic Radiology and Imaging</i> , 2014, 2, 188-198.	1.2	11
102	LSP based comparison of 3D ear models. , 2014, , .		1
103	Secondary Cleft Rhinoplasty. <i>Plastic and Reconstructive Surgery</i> , 2014, 134, 1285-1292.	0.7	31
104	Bipolar Comparison of 3D Ear Models. <i>Communications in Computer and Information Science</i> , 2014, , 160-169.	0.4	1
105	Robust and regional 3D facial asymmetry assessment in hemimandibular hyperplasia and hemimandibular elongation anomalies. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2013, 42, 36-42.	0.7	35
106	The Facial Evolution: Looking Backward and Moving Forward. <i>Human Mutation</i> , 2013, 34, 14-22.	1.1	36
107	The normal-equivalent: a patient-specific assessment of facial harmony. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2013, 42, 1150-1158.	0.7	13
108	Objective Monitoring of mTOR Inhibitor Therapy by Three-Dimensional Facial Analysis. <i>Twin Research and Human Genetics</i> , 2013, 16, 840-844.	0.3	14

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109	A Dymorphometric Analysis to Investigate Facial Phenotypic Signatures as a Foundation for Non-invasive Monitoring of Lysosomal Storage Disorders. <i>JIMD Reports</i> , 2012, 8, 31-39.	0.7	9
110	A textural feature based tumor therapy response prediction model for longitudinal evaluation with PET imaging. , 2012, , .		5
111	Sexual dimorphism in multiple aspects of 3D facial symmetry and asymmetry defined by spatially dense geometric morphometrics. <i>Journal of Anatomy</i> , 2012, 221, 97-114.	0.9	84
112	3D facial analysis can investigate vaccine responses. <i>Medical Hypotheses</i> , 2012, 78, 497-501.	0.8	3
113	Improved facial outcome assessment using a 3D anthropometric mask. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2012, 41, 324-330.	0.7	104
114	A Comparative Study of 3-D Face Recognition Under Expression Variations. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012, 42, 710-727.	3.3	50
115	Dymorphometrics: the modelling of morphological abnormalities. <i>Theoretical Biology and Medical Modelling</i> , 2012, 9, 5.	2.1	36
116	Symmetric surface-feature based 3D face recognition for partial data. , 2011, , .		8
117	Augmentation of linear facial anthropometrics through modern morphometrics: a facial convexity example. <i>Australian Dental Journal</i> , 2011, 56, 141-147.	0.6	14
118	How Different is Different? Criterion and Sensitivity in Face-Space. <i>Frontiers in Psychology</i> , 2011, 2, 41.	1.1	14
119	Spatiallyâ€dense 3D facial asymmetry assessment in both typical and disordered growth. <i>Journal of Anatomy</i> , 2011, 219, 444-455.	0.9	97
120	Intersections of Epigenetics, Twinning and Developmental Asymmetries: Insights Into Monogenic and Complex Diseases and a Role for 3D Facial Analysis. <i>Twin Research and Human Genetics</i> , 2011, 14, 305-315.	0.3	18
121	Bayesian estimation of optimal craniofacial reconstructions. <i>Forensic Science International</i> , 2010, 201, 146-152.	1.3	41
122	Targeting specific facial variation for different identification tasks. <i>Forensic Science International</i> , 2010, 201, 118-124.	1.3	16
123	Objective 3D face recognition: Evolution, approaches and challenges. <i>Forensic Science International</i> , 2010, 201, 125-132.	1.3	83
124	Computerized craniofacial reconstruction: Conceptual framework and review. <i>Forensic Science International</i> , 2010, 201, 138-145.	1.3	115
125	Novel approaches in 3-dimensional facial profiling to establish facial aesthetic objectives in the treatment of facial dysmorphologies. <i>Annals of the Royal Australasian College of Dental Surgeons</i> , 2010, 20, 56-8.	0.0	4
126	The influence of sex, age and body mass index on facial soft tissue depths. <i>Forensic Science, Medicine, and Pathology</i> , 2009, 5, 60-65.	0.6	70



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127	Robust initialization for 2D/3D registration of knee implant models to single-plane fluoroscopy. , 2007, 6512, 86.		4
128	A robust optimization strategy for intensity-based 2D/3D registration of knee implant models to single-plane fluoroscopy. , 2007, , .		3
129	Large-scale in-vivo Caucasian facial soft tissue thickness database for craniofacial reconstruction. Forensic Science International, 2006, 159, S126-S146.	1.3	215
130	Craniofacial reconstruction using a combined statistical model of face shape and soft tissue depths: Methodology and validation. Forensic Science International, 2006, 159, S147-S158.	1.3	113
131	Computerized craniofacial reconstruction using CT-derived implicit surface representations. Forensic Science International, 2006, 159, S164-S174.	1.3	69
132	Statistically Deformable Face Models for Cranio-Facial Reconstruction. Journal of Computing and Information Technology, 2006, 14, 21.	0.2	38
133	Statistically deformable face models for cranio-facial reconstruction. Proc Int Symp Image Signal Process Anal, 2005, , .	0.0	7
134	Volumetric deformable face models for cranio-facial reconstruction. Proc Int Symp Image Signal Process Anal, 2005, , .	0.0	8
135	Semi-automated Ultrasound Facial Soft Tissue Depth Registration: Method and Validation. Journal of Forensic Sciences, 2005, 50, 1-7.	0.9	52
136	Semi-automated ultrasound facial soft tissue depth registration: method and validation. Journal of Forensic Sciences, 2005, 50, 1282-8.	0.9	9
137	Robust and Accurate Partial Surface Registration Based on Variational Implicit Surfaces for Automatic 3D Model Building. , 0, , .		2
138	Partial Surface Integration Based on Variational Implicit Functions and Surfaces for 3D Model Building. , 0, , .		2
139	Automated facial reconstruction. , 0, , 203-221.		5
140	Quantification and visualization of the tooth extraction effects on face with spatially dense geometric morphometrics. Orthodontics and Craniofacial Research, 0, , .	1.2	1