

Blanche Buet

Maîtresse de Conférence

LMO - UMR 8628

Université Paris Sud

www.imo.universite-paris-saclay.fr/~buet/index.html

Bâtiment 307, bureau 2A8
Faculté des Sciences d'Orsay,
91405 Orsay Cedex
FRANCE
+33 (0)1 69 15 77 39
blanche.buet@u-psud.fr

1. CURRICULUM VITAE

Personal information

Born on April 14th, 1988 in Charenton-le-Pont (France).

Jobs

- Since September 2015: **Maîtresse de conférences** at the *Laboratoire de Mathématiques d'Orsay* (Université Paris-Sud) and member of **INRIA DataShape** Team since 2020.
- September 2014–August 2015: **ATER** at the *Institut Camille Jordan* (Université Claude Bernard Lyon 1, France).
- September 2011–August 2014: **PhD student** at the *Institut Camille Jordan* (Université Claude Bernard Lyon 1, France).

Education

- **2014 : PhD thesis in Mathematics**, *Université Claude Bernard Lyon 1, France*.
Under the supervision of **Simon Masnou** (Lyon 1) and **Gian Paolo Leonardi** (Modena), at the *Institut Camille Jordan*, defended on December 12th.
Title: *Surface approximation by discrete varifolds: representation, rectifiability, curvature*.
Doctoral committee: Guy DAVID (reviewer), Gian Paolo LEONARDI (advisor), Simon MASNOU (advisor), Petru MIRONESCU, Hervé PAJOT, Giandomenico ORLANDI (reviewer), Édouard OUDET (reviewer) and Alain TROUVÉ.
- **2011: Master in mathematics**, *ENS Lyon and Université Claude Bernard Lyon 1, France*.
- **2010: Agrégation de mathématiques** (Competitive exam for recruiting teachers), *ENS Lyon, France*.
- **2008: Bachelor in mathematics**, *ENS Lyon, France*.
- **2005: Baccalauréat**, *Pertuis, France*.

Scientific responsibilities

- SUPERVISION:
 - Supervisor of the Master 2 internship of C. Boricaud.
 - Co-advisor of the PhD thesis of A. Sagueni (2020-2024) and C. Boricaud (2021-2025).
- Member (examiner) of PH.D. COMMITTEES of E. Cavallotto (06/2018), L.A.D. Ferrari (10/2018), C. Labourie (01/2020), F. Générault (06/2020), R. Tinarrage (10/2020), R. Petit (12/2022), E. Bonhomme (11/2023), A. Commaret (12/2024) and R. Mougenot (12/2025).
- RECRUITMENT COMMITTEE:
 - Member of 10 recruitment committees for “Maîtresse de conférences” positions (Orsay 2017,2018,2019,2021,2022,2023,2024,2025,2026,2027,2028,2029,2030,2031,2032,2033,2034,2035,2036,2037,2038,2039,2040,2041,2042,2043,2044,2045,2046,2047,2048,2049,2050,2051,2052,2053,2054,2055,2056,2057,2058,2059,2060,2061,2062,2063,2064,2065,2066,2067,2068,2069,2070,2071,2072,2073,2074,2075,2076,2077,2078,2079,2080,2081,2082,2083,2084,2085,2086,2087,2088,2089,2090,2091,2092,2093,2094,2095,2096,2097,2098,2099,2100,2101,2102,2103,2104,2105,2106,2107,2108,2109,2110,2111,2112,2113,2114,2115,2116,2117,2118,2119,2120,2121,2122,2123,2124,2125,2126,2127,2128,2129,2130,2131,2132,2133,2134,2135,2136,2137,2138,2139,2140,2141,2142,2143,2144,2145,2146,2147,2148,2149,2150,2151,2152,2153,2154,2155,2156,2157,2158,2159,2160,2161,2162,2163,2164,2165,2166,2167,2168,2169,2170,2171,2172,2173,2174,2175,2176,2177,2178,2179,2180,2181,2182,2183,2184,2185,2186,2187,2188,2189,2190,2191,2192,2193,2194,2195,2196,2197,2198,2199,2200,2201,2202,2203,2204,2205,2206,2207,2208,2209,2210,2211,2212,2213,2214,2215,2216,2217,2218,2219,2220,2221,2222,2223,2224,2225,2226,2227,2228,2229,2230,2231,2232,2233,2234,2235,2236,2237,2238,2239,2240,2241,2242,2243,2244,2245,2246,2247,2248,2249,2250,2251,2252,2253,2254,2255,2256,2257,2258,2259,2260,2261,2262,2263,2264,2265,2266,2267,2268,2269,2270,2271,2272,2273,2274,2275,2276,2277,2278,2279,2280,2281,2282,2283,2284,2285,2286,2287,2288,2289,2290,2291,2292,2293,2294,2295,2296,2297,2298,2299,2300,2301,2302,2303,2304,2305,2306,2307,2308,2309,2310,2311,2312,2313,2314,2315,2316,2317,2318,2319,2320,2321,2322,2323,2324,2325,2326,2327,2328,2329,2330,2331,2332,2333,2334,2335,2336,2337,2338,2339,2340,2341,2342,2343,2344,2345,2346,2347,2348,2349,2350,2351,2352,2353,2354,2355,2356,2357,2358,2359,2360,2361,2362,2363,2364,2365,2366,2367,2368,2369,2370,2371,2372,2373,2374,2375,2376,2377,2378,2379,2380,2381,2382,2383,2384,2385,2386,2387,2388,2389,2390,2391,2392,2393,2394,2395,2396,2397,2398,2399,2400,2401,2402,2403,2404,2405,2406,2407,2408,2409,2410,2411,2412,2413,2414,2415,2416,2417,2418,2419,2420,2421,2422,2423,2424,2425,2426,2427,2428,2429,2430,2431,2432,2433,2434,2435,2436,2437,2438,2439,2440,2441,2442,2443,2444,2445,2446,2447,2448,2449,2450,2451,2452,2453,2454,2455,2456,2457,2458,2459,2460,2461,2462,2463,2464,2465,2466,2467,2468,2469,2470,2471,2472,2473,2474,2475,2476,2477,2478,2479,2480,2481,2482,2483,2484,2485,2486,2487,2488,2489,2490,2491,2492,2493,2494,2495,2496,2497,2498,2499,2500,2501,2502,2503,2504,2505,2506,2507,2508,2509,2510,2511,2512,2513,2514,2515,2516,2517,2518,2519,2520,2521,2522,2523,2524,2525,2526,2527,2528,2529,2530,2531,2532,2533,2534,2535,2536,2537,2538,2539,2540,2541,2542,2543,2544,2545,2546,2547,2548,2549,2550,2551,2552,2553,2554,2555,2556,2557,2558,2559,2560,2561,2562,2563,2564,2565,2566,2567,2568,2569,2570,2571,2572,2573,2574,2575,2576,2577,2578,2579,2580,2581,2582,2583,2584,2585,2586,2587,2588,2589,2590,2591,2592,2593,2594,2595,2596,2597,2598,2599,2600,2601,2602,2603,2604,2605,2606,2607,2608,2609,2610,2611,2612,2613,2614,2615,2616,2617,2618,2619,2620,2621,2622,2623,2624,2625,2626,2627,2628,2629,2630,2631,2632,2633,2634,2635,2636,2637,2638,2639,2640,2641,2642,2643,2644,2645,2646,2647,2648,2649,2650,2651,2652,2653,2654,2655,2656,2657,2658,2659,2660,2661,2662,2663,2664,2665,2666,2667,2668,2669,2670,2671,2672,2673,2674,2675,2676,2677,2678,2679,2680,2681,2682,2683,2684,2685,2686,2687,2688,2689,2690,2691,2692,2693,2694,2695,2696,2697,2698,2699,2700,2701,2702,2703,2704,2705,2706,2707,2708,2709,2710,2711,2712,2713,2714,2715,2716,2717,2718,2719,2720,2721,2722,2723,2724,2725,2726,2727,2728,2729,2730,2731,2732,2733,2734,2735,2736,2737,2738,2739,2740,2741,2742,2743,2744,2745,2746,2747,2748,2749,2750,2751,2752,2753,2754,2755,2756,2757,2758,2759,2760,2761,2762,2763,2764,2765,2766,2767,2768,2769,2770,2771,2772,2773,2774,2775,2776,2777,2778,2779,2780,2781,2782,2783,2784,2785,2786,2787,2788,2789,2790,2791,2792,2793,2794,2795,2796,2797,2798,2799,2800,2801,2802,2803,2804,2805,2806,2807,2808,2809,2810,2811,2812,2813,2814,2815,2816,2817,2818,2819,2820,2821,2822,2823,2824,2825,2826,2827,2828,2829,2830,2831,2832,2833,2834,2835,2836,2837,2838,2839,2840,2841,2842,2843,2844,2845,2846,2847,2848,2849,2850,2851,2852,2853,2854,2855,2856,2857,2858,2859,2860,2861,2862,2863,2864,2865,2866,2867,2868,2869,2870,2871,2872,2873,2874,2875,2876,2877,2878,2879,2880,2881,2882,2883,2884,2885,2886,2887,2888,2889,2890,2891,2892,2893,2894,2895,2896,2897,2898,2899,2900,2901,2902,2903,2904,2905,2906,2907,2908,2909,2910,2911,2912,2913,2914,2915,2916,2917,2918,2919,2920,2921,2922,2923,2924,2925,2926,2927,2928,2929,2930,2931,2932,2933,2934,2935,2936,2937,2938,2939,2940,2941,2942,2943,2944,2945,2946,2947,2948,2949,2950,2951,2952,2953,2954,2955,2956,2957,2958,2959,2960,2961,2962,2963,2964,2965,2966,2967,2968,2969,2970,2971,2972,2973,2974,2975,2976,2977,2978,2979,2980,2981,2982,2983,2984,2985,2986,2987,2988,2989,2990,2991,2992,2993,2994,2995,2996,2997,2998,2999,3000,3001,3002,3003,3004,3005,3006,3007,3008,3009,3010,3011,3012,3013,3014,3015,3016,3017,3018,3019,3020,3021,3022,3023,3024,3025,3026,3027,3028,3029,3030,3031,3032,3033,3034,3035,3036,3037,3038,3039,3040,3041,3042,3043,3044,3045,3046,3047,3048,3049,3050,3051,3052,3053,3054,3055,3056,3057,3058,3059,3060,3061,3062,3063,3064,3065,3066,3067,3068,3069,3070,3071,3072,3073,3074,3075,3076,3077,3078,3079,3080,3081,3082,3083,3084,3085,3086,3087,3088,3089,3090,3091,3092,3093,3094,3095,3096,3097,3098,3099,3100,3101,3102,3103,3104,3105,3106,3107,3108,3109,3110,3111,3112,3113,3114,3115,3116,3117,3118,3119,3120,3121,3122,3123,3124,3125,3126,3127,3128,3129,3130,3131,3132,3133,3134,3135,3136,3137,3138,3139,3140,3141,3142,3143,3144,3145,3146,3147,3148,3149,3150,3151,3152,3153,3154,3155,3156,3157,3158,3159,3160,3161,3162,3163,3164,3165,3166,3167,3168,3169,3170,3171,3172,3173,3174,3175,3176,3177,3178,3179,3180,3181,3182,3183,3184,3185,3186,3187,3188,3189,3190,3191,3192,3193,3194,3195,3196,3197,3198,3199,3200,3201,3202,3203,3204,3205,3206,3207,3208,3209,3210,3211,3212,3213,3214,3215,3216,3217,3218,3219,3220,3221,3222,3223,3224,3225,3226,3227,3228,3229,3230,3231,3232,3233,3234,3235,3236,3237,3238,3239,3240,3241,3242,3243,3244,3245,3246,3247,3248,3249,3250,3251,3252,3253,3254,3255,3256,3257,3258,3259,3260,3261,3262,3263,3264,3265,3266,3267,3268,3269,3270,3271,3272,3273,3274,3275,3276,3277,3278,3279,3280,3281,3282,3283,3284,3285,3286,3287,3288,3289,3290,3291,3292,3293,3294,3295,3296,3297,3298,3299,3300,3301,3302,3303,3304,3305,3306,3307,3308,3309,3310,3311,3312,3313,3314,3315,3316,3317,3318,3319,3320,3321,3322,3323,3324,3325,3326,3327,3328,3329,3330,3331,3332,3333,3334,3335,3336,3337,3338,3339,3340,3341,3342,3343,3344,3345,3346,3347,3348,3349,3350,3351,3352,3353,3354,3355,3356,3357,3358,3359,3360,3361,3362,3363,3364,3365,3366,3367,3368,3369,3370,3371,3372,3373,3374,3375,3376,3377,3378,3379,3380,3381,3382,3383,3384,3385,3386,3387,3388,3389,3390,3391,3392,3393,3394,3395,3396,3397,3398,3399,3400,3401,3402,3403,3404,3405,3406,3407,3408,3409,3410,3411,3412,3413,3414,3415,3416,3417,3418,3419,3420,3421,3422,3423,3424,3425,3426,3427,3428,3429,3430,3431,3432,3433,3434,3435,3436,3437,3438,3439,3440,3441,3442,3443,3444,3445,3446,3447,3448,3449,3450,3451,3452,3453,3454,3455,3456,3457,3458,3459,3460,3461,3462,3463,3464,3465,3466,3467,3468,3469,3470,3471,3472,3473,3474,3475,3476,3477,3478,3479,3480,3481,3482,3483,3484,3485,3486,3487,3488,3489,3490,3491,3492,3493,3494,3495,3496,3497,3498,3499,3500,3501,3502,3503,3504,3505,3506,3507,3508,3509,3510,3511,3512,3513,3514,3515,3516,3517,3518,3519,3520,3521,3522,3523,3524,3525,3526,3527,3528,3529,3530,3531,3532,3533,3534,3535,3536,3537,3538,3539,3540,3541,3542,3543,3544,3545,3546,3547,3548,3549,3550,3551,3552,3553,3554,3555,3556,3557,3558,3559,3560,3561,3562,3563,3564,3565,3566,3567,3568,3569,3570,3571,3572,3573,3574,3575,3576,3577,3578,3579,3580,3581,3582,3583,3584,3585,3586,3587,3588,3589,3590,3591,3592,3593,3594,3595,3596,3597,3598,3599,3600,3601,3602,3603,3604,3605,3606,3607,3608,3609,3610,3611,3612,3613,3614,3615,3616,3617,3618,3619,3620,3621,3622,3623,3624,3625,3626,3627,3628,3629,3630,3631,3632,3633,3634,3635,3636,3637,3638,3639,3640,3641,3642,3643,3644,3645,3646,3647,3648,3649,3650,3651,3652,3653,3654,3655,3656,3657,3658,3659,3660,3661,3662,3663,3664,3665,3666,3667,3668,3669,3670,3671,3672,3673,3674,3675,3676,3677,3678,3679,3680,3681,3682,3683,3684,3685,3686,3687,3688,3689,3690,3691,3692,3693,3694,3695,3696,3697,3698,3699,3700,3701,3702,3703,3704,3705,3706,3707,3708,3709,3710,3711,3712,3713,3714,3715,3716,3717,3718,3719,3720,3721,3722,3723,3724,3725,3726,3727,3728,3729,3730,3731,3732,3733,3734,3735,3736,3737,3738,3739,3740,3741,3742,3743,3744,3745,3746,3747,3748,3749,3750,3751,3752,3753,3754,3755,3756,3757,3758,3759,3760,3761,3762,3763,3764,3765,3766,3767,3768,3769,3770,3771,3772,3773,3774,3775,3776,3777,3778,3779,3780,3781,3782,3783,3784,3785,3786,3787,3788,3789,3790,3791,3792,3793,3794,3795,3796,3797,3798,3799,3800,3801,3802,3803,3804,3805,3806,3807,3808,3809,3810,3811,3812,3813,3814,3815,3816,3817,3818,3819,3820,3821,3822,3823,3824,3825,3826,3827,3828,3829,3830,3831,3832,3833,3834,3835,3836,3837,3838,3839,3840,3841,3842,3843,3844,3845,3846,3847,3848,3849,3850,3851,3852,3853,3854,3855,3856,3857,3858,3859,3860,3861,3862,3863,3864,3865,3866,3867,3868,3869,3870,3871,3872,3873,3874,3875,3876,3877,3878,3879,3880,3881,3882,3883,3884,3885,3886,3887,3888,3889,3890,3891,3892,3893,3894,3895,3896,3897,3898,3899,3900,3901,3902,3903,3904,3905,3906,3907,3908,3909,3910,3911,3912,3913,3914,3915,3916,3917,3918,3919,3920,3921,3922,3923,3924,3925,3926,3927,3928,3929,3930,3931,3932,3933,3934,3935,3936,3937,3938,3939,3940,3941,3942,3943,3944,3945,3946,3947,3948,3949,3950,3951,3952,3953,3954,3955,3956,3957,3958,3959,3960,3961,3962,3963,3964,3965,3966,3967,3968,3969,3970,3971,3972,3973,3974,3975,3976,3977,3978,3979,3980,3981,3982,3983,3984,3985,3986,3987,3988,3989,3990,3991,3992,3993,3994,3995,3996,3997,3998,3999,4000,4001,4002,4003,4004,4005,4006,4007,4008,4009,4010,4011,4012,4013,4014,4015,4016,4017,4018,4019,4020,4021,4022,4023,4024,4025,4026,4027,4028,4029,4030,4031,4032,4033,4034,4035,4036,4037,4038,4039,4040,4041,4042,4043,4044,4045,4046,4047,4048,4049,4050,4051,4052,4053,4054,4055,4056,4057,4058,4059,4060,4061,4062,4063,4064,4065,4066,4067,4068,4069,4070,4071,4072,4073,4074,4075,4076,4077,4078,4079,4080,4081,4082,4083,4084,4085,4086,4087,4088,4089,4090,4091,4092,4093,4094,4095,4096,4097,4098,4099,4100,4101,4102,4103,4104,4105,4106,4107,4108,4109,4110,4111,4112,4113,4114,4115,4116,4117,4118,4119,4120,4121,4122,4123,4124,4125,4126,4127,4128,4129,4130,4131,4132,4133,4134,4135,4136,4137,4138,4139,4140,4141,4142,4143,4144,4145,4146,4147,4148,4149,4150,4151,4152,4153,4154,4155,4156,4157,4158,4159,4160,4161,4162,4163,4164,4165,4166,4167,4168,4169,4170,4171,4172,4173,4174,4175,4176,4177,4178,4179,4180,4181,4182,4183,4184,4185,4186,4187,4188,4189,4190,4191,4192,4193,4194,4195,4196,4197,4198,4199,4200,4201,4202,420

- Co-organizer of the conference Geometric Sciences in Action: from Geometric Statistics to Shape Analysis held in CIRM in may 2024.
- Co-organizer of the Harmonic Analysis team seminar (2017–2019 and since 2022) and Co-organizer of the *44th Summer Symposium in Real Analysis* held in Paris and Orsay in June 2022 (main organizer: L. Moonens).
- COUNCILS:
 - Member of scientific commission of Paris-Saclay CCUPS (since 2021)
 - Member of laboratory council (2020-2024).
 - Member of gender committee (2019-2024).
- 2024-2026: Co-organizer of the *Journées de rentrée de Masters de la FMJH*.
- Oral examinations for the entrance exam for the École Normale Supérieure de Cachan (2019).

Main fundings

- Since October 2024: member of ANR STOIQUES.
- October 2021–2025: scientific coordinator of JCJC ANR project *GeMfaceT: A bridge between Geometric Measure and Discrete Surface Theories*.
- 2018: scientific coordinator of JCJC INSMI PEPS project *A unified framework for surface approximation through varifolds*.

Periods spent abroad

- February 2025–May 2025: I spent 3 months at the *Maths Department of Trento* (Italy) to work with Gian Paolo LEONARDI.
- November 2015–December 2015: I spent 2 months at the *Hausdorff Center for Mathematics* in Bonn (Germany) to work with Martin RUMPF.
- September 2013–December 2013: I spent 3 months at the *Maths Department of Modena* (Italy) to work with my advisor Gian Paolo LEONARDI.
- June 2008–July 2008: I spent 6 weeks at the *Poncelet laboratory in Moscow* (Russia) for a Bachelor internship supervised by Victor PRASOLOV.

Dissemination

- I wrote the **dissemination paper** *Varifolds : des films de savon aux surfaces discrètes* for the “Maths en pleines formes Express” journal, published for the “Salon de la culture et des jeux mathématiques” in June 2022, https://www.cijm.org/pdf/maths_express/2022_Maths_en_pleines_formes_Express.pdf.
- I gave a talk in the *Mathematic Park* seminar aiming at students in the first years of university <http://ihp.fr/fr/seminaire/mathpark-programme1819> (January 2019).

2. PUBLICATIONS AND COMMUNICATIONS

Preprints

- *A varifold-type estimation for data sampled on a rectifiable set*, BORICAUD Charly, BUET Blanche, Arxiv (2025), 56p, <https://arxiv.org/abs/2501.16315>.
- *Curvature penalization of strongly anisotropic interfaces models and their phase-field approximation*, BABADJIAN Jean-François, BUET Blanche, GOLDMAN Michael, Arxiv (2025), 48p, <https://arxiv.org/abs/2510.13275>.
- *Approximate mean curvature flows of a general varifold, and their limit spacetime Brakke flow*, BUET Blanche, LEONARDI Gian Paolo, MASNOU Simon, SAGUENI Abdelmouksit, Arxiv (2025), 55p, <https://arxiv.org/abs/2510.00746>.

- *Flagfolds: an approach to multi-dimensional varifolds*, BUET Blanche, PENNEC Xavier, ArXiv (2023), 57p, <https://arxiv.org/abs/2305.10583>.

Journal papers (with peer-review process)

- *Mean Curvature Motion of Point Cloud Varifolds*, BUET Blanche, RUMPF Martin, ESAIM: M2AN, 56 (2022), p. 1773–1808, <https://www.esaim-m2an.org/articles/m2an/abs/2022/05/m2an210048/m2an210048.html>.
- *Weak and approximate curvatures of a measure: a varifold perspective*, BUET Blanche, LEONARDI Gian Paolo, MASNOU Simon, Nonlinear Analysis, 222 (2022), p. 1-34, <https://www.sciencedirect.com/science/article/abs/pii/S0362546X22001171>.
- *A varifold approach to surface approximation*, BUET Blanche, LEONARDI Gian Paolo, MASNOU Simon, Archive for Rational Mechanics and Analysis, 226 (2017), p. 639-694, <https://link.springer.com/article/10.1007/s00205-017-1141-0>.
- *Recovering measures from approximate values on balls*, BUET Blanche, LEONARDI Gian Paolo, Annales Academiæ Scientiarum Fennicæ, 41 (2016), p. 947-972, <https://www.acadsci.fi/mathematica/Vol41/BuetLeonardi.html>.
- *Quantitative conditions of rectifiability for varifolds*, BUET Blanche, Annales de l'institut Fourier, 65 no. 6 (2015), p. 2449-2506, http://www.numdam.org/item/AIF_2015__65_6_2449_0/.

Ph.D. Dissertation

Discrete varifolds and surface approximation: representation, curvature, rectifiability., BUET Blanche, Décembre 2014, Université Lyon 1, France. Ph.D advisors LEONARDI Gian Paolo and MASNOU Simon.

Proceedings with peer-review process

- *Partial differential equations and variational methods for geometric processing of images*, B. Buet, J-M. Mirebeau, Y. van Gennip, F. Desquilbet, J. Dreio, F. Barbaresco, G.P. Leonardi, S. Masnou, C-B. Schönlieb, The SMAI journal of computational mathematics, Volume S5 (2019), https://smaj-jcm.centre-mersenne.org/item/SMAI-JCM_2019__S5__109_0/.
- *Discretization and approximation of surfaces using varifolds*, BUET Blanche, LEONARDI Gian Paolo, MASNOU Simon, Geometric Flows, 3(2), 2018.
- *Discrete varifolds and surface approximation*, BUET Blanche, LEONARDI Gian Paolo, MASNOU Simon, Topological Optimization and Optimal Transport in the Applied Sciences, vol. 17, Berlin, Boston: De Gruyter (2017).
- *Discrete varifolds: a unified framework for discrete approximations of surfaces and mean curvature*, BUET Blanche, LEONARDI Gian Paolo, MASNOU Simon, SSVM 2015, LNCS volume 9087 (2015), p. 513-524.
- *Varifolds and Generalized curvature*, BUET Blanche, in ESAIM Proceedings, 42 (2013), p. 1-9.

Other publications

- BUET Blanche, *Varifolds : des films de savon aux surfaces discrètes*, Maths en pleines formes Express, 2022, https://www.cijm.org/pdf/maths_express/2022_Maths_en_pleines_formes_Express.pdf. Article de vulgarisation.
- AUPHAN Thomas, BOCHARD Pierre, BOUHOURS Juliette, BUET Blanche, CLAISSE Julien, CRES-TETTO Anaïs et DELEUZE Yannick. Semaine d'Etude Mathématiques et Entreprises 2 : *Analyse multivariées pour la production d'aluminium*, 2011, <http://hal.archives-ouvertes.fr/hal-00780582>.

Oral communications in Conferences

- July 2026 (upcoming): *Computational Geometry and Topology Workshop, FoCM 2026 conference*, (Vienna, Austria).

- January 2026: Calculus of Variations and applications Conference, (CIRM-Marseille, France).
- January 2025: Journées parisiennes d'analyse géométrique, Université Gustave Eiffel (Marne-le-Vallée, France).
- November 2024: Mathematical Imaging and Random Geometry workshop, (Nice, France)
- October 2024: Geometry and Computing 2024, (CIRM–Marseille, France).
- August 2024: 16ème Colloque Franco-Roumain de Mathématiques Appliquées, (Bucarest, Romania).
- April 2024: Variational Analysis, Models and Methods in Measure Spaces, (CIRM–Marseille, France).
- October 2023: Workshop on Continuous Image Processing and off-the-grid methods in Inverse Problems, (IHP, Paris).
- June 2023: *Approximation Theory Workshop, FoCM 2023 conference* (Paris, France).
- Mars 2023: *The Paris-London Analysis Seminar* (UCL, London, UK).
- November 2022: *Measure-theoretic Approaches and Optimal Transportation in Statistics*, IHP thematic semester: Geometry, Topology and Statistics in Data Sciences (Paris, France), link to video: <https://dx.doi.org/10.57987/IHP.2022.T3.WS3.002>.
- June 2022: *Shape Optimization and related Topics* (Roscoff, France).
- January 2021: Mathematics and Image Analysis MIA'21, link to video: http://gdr-mia.math.cnrs.fr/events/fgmia-21/program/talks/B_Buet.mp4
- March 2020: Workshop *Geometric Curvature Functionals and Optimization* (Göttingen, Germany).
- April 2019: *Geometric Processing*, IPAM program Geometry and Learning from Data in 3D and Beyond (UCLA, USA).
- February 2019: *Variational Methods and Optimization in Imaging*, thematic trimester of IHP: The Mathematics of Imaging (Paris, France).
- July 2018: *Curves and Surfaces* (Arcachon, France).
- June 2018: workshop *Geometric Measure Theory* (Verona, Italy).
- May 2018: *CANUM 2018* (Agde, France).
- September 2016: *Geometric Measure Theory* (Toulouse, France).
- January 2016: *Mathematical Imaging and Surface Processing* (Oberwolfach, Germany).
- June 2015: **Poster prize**, *SMAI 2015* (Les Karellis, France).
- June 2015: *SSVM 2015* (Lège Cap Ferret, France).
- February 2015: *XXV Convegno Nazionale di Calcolo delle Variazioni* (Levico, Italy).
- October 2014: workshop *Shape and Topological Optimization* (Linz, Austria).
- June 2014: **Poster prize**, *Curves and Surfaces 2014* (Paris, France).

Short courses

- February 2025: short course (3h) Varifolds: variational manifolds at ESI, Vienna.
- November 2024: short course (6h) Varifolds at IECL Nancy.
- December 2023: short course (3h), école d'hiver d'Aussois (last edition 2022: <https://sites.google.com/view/adrienboulangermaths/home/aussois-2022>).
- October 2019 : short course (2h): *Varifolds and geometric inference* at INRIA DataShape seminar team (Porquerolles, France).
- October-November 2018: short course (6h): *Varifolds and approximation* in Institut Fourier in the context of GeoSpec project.