

Louis-Michel Tougas

Étude

pour ensemble de chambre

Partition

2022

Remerciements

Cette pièce était composée pour le Composer-Performer Orchestration Research Ensemble (CORE) de l'université McGill, dans le cadre du projet Analyse, Création et Enseignement de l'Orchestration (ACTOR).

Mes remerciements vont à Stephen McAdams et Guillaume Bourgogne pour l'organisation de ce projet, ainsi qu'aux interprètes de l'ensemble CORE 2021-2022 pour leur aide et leur contribution significative à toutes les étapes du processus de création de la pièce :

Alex Huyghebaert, flûte
Alexander Ortins, clarinette basse
Micah Kroeker, trombone
Huizi Wang, percussions
Donglai Shi, piano
Bailey Wantuch, violon
Amelia Smerz, violoncelle
Frédéric-Alexandre Michaud, direction

La pièce a été présentée en première le 8 avril 2022 à l'École de musique Schulich de l'université McGill.

Instruments

Flute in C

Bass Clarinet in B $\flat$

Trombone

Percussions

Piano

Violin

Cello

Percussion Instruments

Guiro

Flexatone - low and high staff lines represent pressure on the blade (see mm. 69-78)

Sand blocks

Vibraphone, with medium soft mallets and 1 bow

Vibraslap

General

Except when specifically indicated, vibrato should be avoided.

At letter D (mm. 26-42), the vibrato and bisbigliando speeds are indicated in cycle per second (cps).

These are approximate values, but the oscillations of all instruments should occur at different speeds.

Special symbols

Flute and Trombone



Trombone: reverse mouthpiece to produce only air sound

Flute: play the notated pitch, but maximize air sound

Violin and Cello



Play directly on the bridge and mute all strings, as to produce a toneless noise



Harmonic pressure, even when not producing a specific overtone



half-pressure

Between harmonic and normal pressure

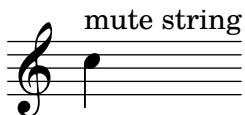
Always exaggerate *sul ponticello* and *sul tasto* positions

Throughout the piece, ordinario (ord.) is used to cancel sul tasto/pont. positions, while arco normale (arco norm.) is used to cancel particular bowing techniques (mainly col legno).

Piano



Attack the note, quickly release the key almost completely, then depress it again silently, to let only the higher harmonics ring



mute string

Mute strings with the palm of the hand in order to produce sounds as short and toneless (without perceptible pitch) as possible.

Étude
pour ensemble de chambre
pour l'ensemble CORE

Louis-Michel Tougas

18.03.2022

Score in C

A

♩ = 60
flz.

Flute

pp ————— *mf*

Bass Clarinet
in B $\flat$

flz.

pp ————— *f*

Trombone

harmon mute on
with stem almost out

flz.

pp ————— *mf*

Percussion

Guiro
single gesture

pp ————— *mf*

Sand blocks
rub together circularly

p 5 5 5 5

Piano

mf *p* *ppp*

Violin

mute strings
on the bridge

f

ord.
tr ~ *tr* ~ *tr* ~ *tr* ~

p *mf*

Cello

mute strings
on the bridge

f

5:4
← ♩ = ♩ → (♩ = 75)

Fl. 5
pp ————— *fp*

B. Cl. 8 flz. flz. flz.
mf ————— *p* ————— *f*

Tbn. flz. flz.
p ————— *fp*

Perc. *f*

Pno. *p* ————— *mf* ————— *p*

Vln. *tr* *p* jeté *f* al tallone *f* ————— *p*

Vc. ord. *ppp* ————— *f*

7

Fl.

B. Cl.

Tbn.

Perc.

Pno.

Vln.

Vc.

Vibraphone
(Motor off)
Medium soft mallets

reverse
mouthpiece

ppp *p* *ppp*

una corda

arco norm.
molto sul pont. punta d'arco

ppp *p* *ppp*

ppp *p* *ppp*

Detailed description of the musical score: The score is for a 7-piece ensemble. Measures 7 and 8 are shown. The Flute and B. Clarinet parts have whole rests in both measures. The Trombone part has a whole rest in measure 7 and a half note with a 'reverse mouthpiece' instruction in measure 8. The Percussion part features a vibraphone melody starting in measure 7 with a *ppp* dynamic, reaching a *p* dynamic in measure 8, and ending with a *ppp* dynamic. The Piano part has a melody in the right hand starting in measure 7 with a *ppp* dynamic, reaching a *p* dynamic in measure 8, and ending with a *ppp* dynamic. The Violin part has a sustained note in measure 7 and a melodic line in measure 8 with dynamics *ppp*, *p*, and *ppp*. The Viola part has a sustained note in measure 7 and a melodic line in measure 8 with dynamics *ppp*, *p*, and *ppp*, including the instruction 'molto sul pont.' and 'punta d'arco'.

B

9 ♩ = 120

Fl.

B. Cl.

Tbn.

Perc.

Pno.

Vln.

Vc.

ppp *Red.* *f*

pp *Red.* *f* *pp* *Red.*

p *f* *pp* *Red.*

pp *f* *pp* *Red.*

p *f* *pp* *Red.*

p *f* *pp* *Red.*

[illegible]

18

Fl.

f *p* *mf* *sfz* *flz.* *tr* *fp*

B. Cl.

smorzato *mf* *pp* *sfz* *sub. p* *mf* *flz.* *pp*

Tbn.

revert to normal mouthpiece position

pp *mf* *p* *pp* *mp* *pp*

Perc.

Sand blocks
rub together circularly

p *sfz* *p*

Pno.

ppp *una corda* *Red.* *f ppp* *mute strings*

Vln.

ord. *mf* *pp* *sul pont.* *fp*

Vc.

ord. *mf* *fp* *pp* *sul pont.* *fp*

22 D = 60

Fl.

B. Cl.

Tbn.

Perc.

Pno.

Vln.

Vc.

flz.

pp *f* *p* *mp* *p* *f* *p*

metal practice mute on

Vibraphone with bow

half-pressure *tr* (sul pont.)

p *f* *p* *fp* *pp*

f *mf* *Red.*

n.v.

5 *0+ 0+0+0+0+*

3

5

8

mf

Red.

Fl.

n.v.

f

B. Cl.

f

Tbn.

mf

Perc.

mp

mf

Pno.

f

8va

Red.

change bow imperceptibly
molto sul tasto

Vln.

f

Vc.

molto sul tasto
change bow imperceptibly

f

8va

Red.

change bow imperceptibly
molto sul tasto

Vln.

f

Vc.

molto sul tasto
change bow imperceptibly

f

36

Fl.

bisb. (~2 cps)

E ♩ = 120

ff

B. Cl.

bisb. (~6 cps)

ff

Tbn.

fast vibrato (~5 cps)

harmon mute on stem almost out

ff

Perc.

Motor on, fast speed

ff

motor off with medium soft mallets

p *mf*

Red.

Pno.

ff *Red.*

f

p *Red.*

Vln.

molto vib. (~4 cps)

slight overpressure

ff *ppp* *mf*

Vc.

molto vib. (~3 cps)

slight overpressure

f

Fl.

B. Cl.

Tbn.

Perc.

Pno.

Vln.

Vc.

Measures 43-48. Percussion: p , ppp , mf , pp . Piano: p , ppp , f , p , f , ppp . Bass line: f , p , mf , p . Pedal points in bass line.

Fl.

B. Cl.

Tbn.

Perc.

Pno.

Vln.

Vc.

Measures 49-52. Percussion: p , mf , p , $sub. f$, f , pp . Piano: f , p , f , p . Bass line: f , p . Pedal points in bass line.

53 **F** ♩ = 90

Fl. *mp* flz. 3

B. Cl. *fpp* *f* slap flz tongue *ppp* *mp* flz. 3

Tbn. *f* *pp* *f* flz. *p* *mf* 3

Perc. Sand blocks rub circularly *f* 3

Pno. *p* mute strings

Vln. *ff* *Red.* *ord. tr* *fp*

Vc. *sul pont.* *fp*

58

Fl.

f *p* *ppp* *mf* *pp*

(non-flz.) flz.

B. Cl.

pp *mp*

Tbn.

p

flz. - - - non-flz.

Perc.

Vibraphone

arco *p*

Pno.

pp

tr

Red. *

Vln.

(ord.) *p* *p* *f*

Vc.

(ord.) *p* *p* *f*

62

Fl.

flz.

fp *pp*

B. Cl.

slap flz
tongue

non-flz.

pp *ffp* *fp* *pp* *mfp* *pp*

Tbn.

flz. non-flz.

flz.

pp *fp* *ppp* *pp* *fp* *pp* *fp* *pp*

Perc.

Pno.

mute strings

ff *ff* *ff*

f

3

Vln.

molto sul pont.

ppp *ff*

Vc.

molto sul tasto

fp *pp* *fp* *pp*

[illegible]

71 $\leftarrow \text{♩} = \text{♩} \rightarrow (\text{♩} = 50)$ $\leftarrow \text{♩} = \text{♩} \rightarrow (\text{♩} = 75)$

Fl.

B. Cl.

Tbn. *fast vibrato* *pppp* *vib.* *3* *n.v.* *p*

Perc. *p* *3*

Pno.

Vln. *arco norm.* *tr* *col legno tratto* *3* *3* *pp*

Vc. *arco norm.* *p* *f* *p*

73 $\leftarrow \text{♩} = \text{♩} \rightarrow (\text{♩} = 112)$

Fl.

B. Cl.

Tbn. *ppp*

Perc. *change bow imperceptibly*

Pno.

Vln. *tr* *♩ (♩♯)*

Vc. *p* *f*

74

Fl.

B. Cl.

Tbn.

Perc.

Pno.

Vln.

Vc.

← $\overset{3}{\text{trill}} \rightarrow$ ($\text{♩} = 67$)

fast vib.

fast vibrato

pppp

p

f

pp

p < *mf*

arco norm.

col legno

tr

pp

ppp

78 **H** ♩ = 120

Fl.

B. Cl.

Tbn.

Perc.

Vibraphone

senza vib.

with medium soft mallets

f *ppp* *p* *pp* *f*

p *f* *p*

Pno.

Vln.

Vc.

Measures 78-81 are shown. The score includes staves for Flute (Fl.), Bass Clarinet (B. Cl.), Trombone (Tbn.), Percussion (Perc.), Piano (Pno.), Violin (Vln.), and Viola (Vc.). The Percussion part features a complex rhythmic pattern with triplets and various dynamics (f, ppp, p, pp, f). The Piano part has a complex texture with multiple voices. The Violin and Viola parts are mostly rests with some initial movement in measure 78.

Fl.

B. Cl.

Tbn.

Perc.

Pno.

Vln.

Vc.

Measures 82-85. Percussion: *p*, *pp*, *mp*, *p*, *mf*, *p*. Piano: *p*, *f*, *pp*, *p*, *pp*, *f*. Flute, Clarinet, Trombone, Violin, and Viola are silent.

Fl.

B. Cl.

Tbn.

Perc.

Pno.

Vln.

Vc.

Measures 86-90. Percussion: *f*, *p*, *pp*, *p*, *mp*, *p*. Piano: *mf*, *p*, *pp*, *p*, *pp*, *p*. Flute, Clarinet, Trombone, Violin, and Viola are silent.

92 **I** ♩ = 60

Fl. n.v. *mf*

B. Cl.

Tbn. mute out smorzato *mf*

Perc. $\text{r}3\text{r}3\text{r}$ *mp* *p* *pp* *mf*

Pno. *mf* *8* *mf* *8*

Vln. n.v., ord. *mf*

Vc. n.v., arco norm. molto sul tasto *mf*

100

Fl.

B. Cl.

Tbn.

Perc.

Pno.

Vln.

Vc.

smorzato

5

5

5

f

jaw vib.

f

pp

f

pp

3

3

3

f

pp

ff

8

pp

ff

molto sul pont.

p

ff

molto sul pont.

p

ff

104

Fl.

B. Cl.

Tbn.

Perc.

Pno.

Vln.

Vc.

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

467

468

469

470

471

472

473

474

475

476

477

478

479

480

481

482

483

484

485

486

487

488

489

490

491

492

493

494

495

496

497

498

499

500

501

502

503

504

505

506

507

508

509

510

511

512

513

514

515

516

517

518

519

520

521

522

523

524

525

526

527

528

529

530

531

532

533

534

535

536

537

538

539

540

541

542

543

544

545

546

547

548

← ♩ = ♩ → (♩ = 48)

110

Fl.

B. Cl.

Tbn.

Perc.

Pno.

Vln.

Vc.

p *f* *pp* *p*

tr

pp *p* *pp* *mf*

fast vibrato

half-col legno tratto
détaché, n.v.
(molto sul pont.)

← ♩ = ♩ → (♩ = 72)

115

Fl.

B. Cl.

Tbn.

Perc.

Pno.

Vln.

Vc.

pp *p* *pp* *mf* *pp*

tr

pp *p* *mf* *pp*

fast vibrato

n.v.

half-col legno tratto
détaché
molto sul pont., n.v.

tr

pp *p* *pp*

pp *p* *pp*

121 **K** = 60

Fl. n.v. *mp*

B. Cl. n.v. *mp* *ppp* *f*

Tbn. *ppp* *mf* *ppp* *f* *ppp*

Perc. with bow *mf* *f*

Pno. *p* *ff*

Vln. n.v. molto sul pont. arco norm. *ppp* *f*

Vc. arco norm. (molto sul pont., n.v.) *ppp* *mf* *ppp* *f*

128

Fl.

B. Cl.

Tbn.

Perc.

Pno.

Vln.

Vc.

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

467

468

469

470

471

472

473

474

475

476

477

478

479

480

481

482

483

484

485

486

487

488

489

490

491

492

493

494

495

496

497

498

499

500

501

502

503

504

505

506

507

508

509

510

511

512

513

514

515

516

517

518

519

520

521

522

523

524

525

526

527

528

529

530

531

532

533

534

535

536

537

538

539

540

541

542

543

544

545

546

547

548

549

550

551

552

553

554

555

556

557

558

559

560

561

562

563

564

565

566

567

568

134 $\leftarrow \text{♩} = \text{♩} \rightarrow (\text{♩} = 80)$

Fl. $\frac{3}{4}$ $\frac{6}{8}$ $\frac{4}{4}$ $\frac{6}{8}$

B. Cl. $\frac{3}{4}$ $\frac{6}{8}$ $\frac{4}{4}$ $\frac{6}{8}$

Tbn. $\frac{3}{4}$ $\frac{6}{8}$ $\frac{4}{4}$ $\frac{6}{8}$

Perc. $\frac{3}{4}$ $\frac{6}{8}$ $\frac{4}{4}$ $\frac{6}{8}$

Pno. $\frac{3}{4}$ $\frac{6}{8}$ $\frac{4}{4}$ $\frac{6}{8}$

Vln. $\frac{3}{4}$ $\frac{6}{8}$ $\frac{4}{4}$ $\frac{6}{8}$ *tr* *pp* *détaché* *p*

Vc. $\frac{3}{4}$ $\frac{6}{8}$ $\frac{4}{4}$ $\frac{6}{8}$ *mp* *p* *mf*

138 $\leftarrow \text{♩} = \text{♩} \rightarrow (\text{♩} = 53)$

Fl. $\frac{6}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ $\frac{3}{4}$

B. Cl. $\frac{6}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ $\frac{3}{4}$

Tbn. $\frac{6}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ $\frac{3}{4}$

Perc. $\frac{6}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ $\frac{3}{4}$

Pno. $\frac{6}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ $\frac{3}{4}$

Vln. $\frac{6}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ $\frac{3}{4}$ *change bow if necessary* *tr* *(détaché)* *p* *mf*

Vc. $\frac{6}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ $\frac{3}{4}$ *a punta d'arco* *mf* *pp* *mf* *pp*

Fl.

B. Cl.

Tbn.

Perc.

Pno.

Vln.

Vc.

tr

decresc.

rall.

a punta d'arco

mf

ppp