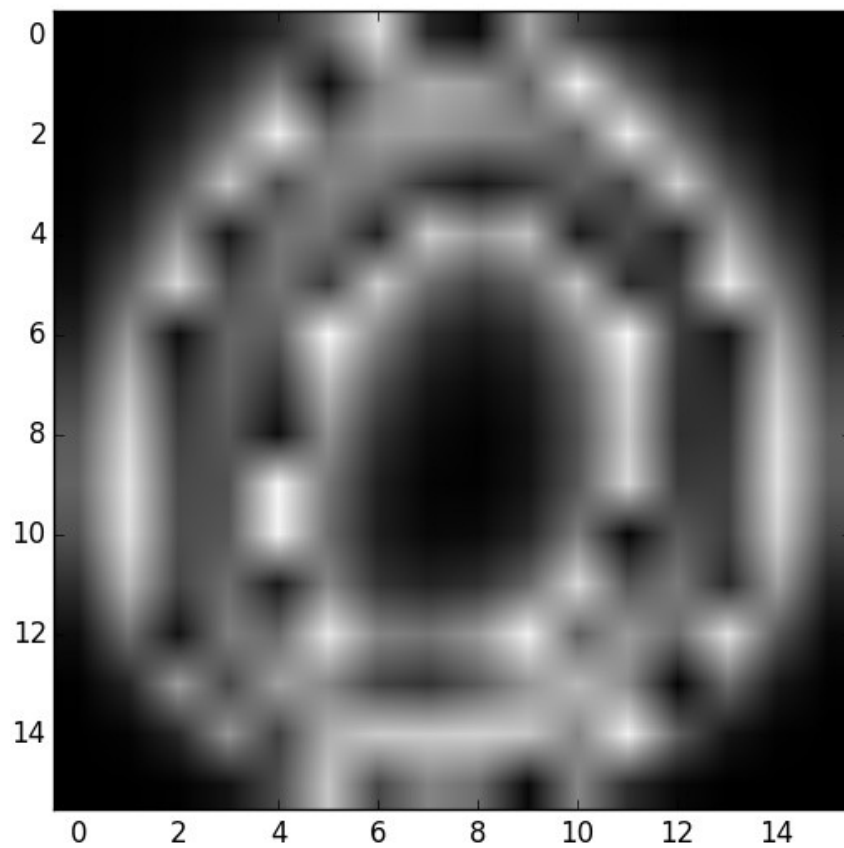


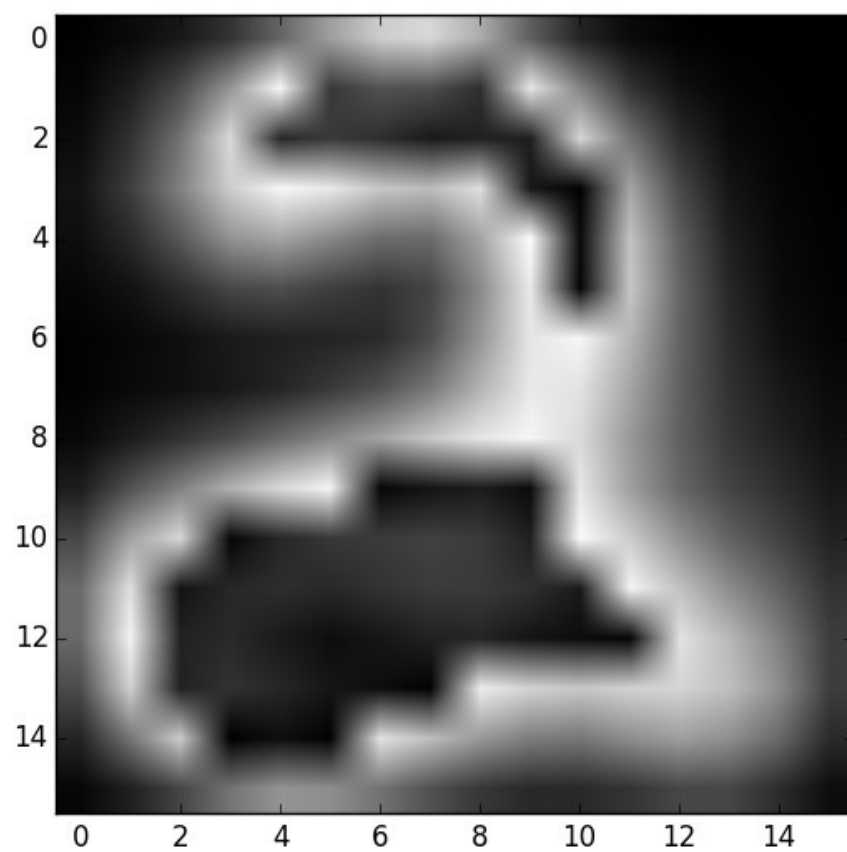
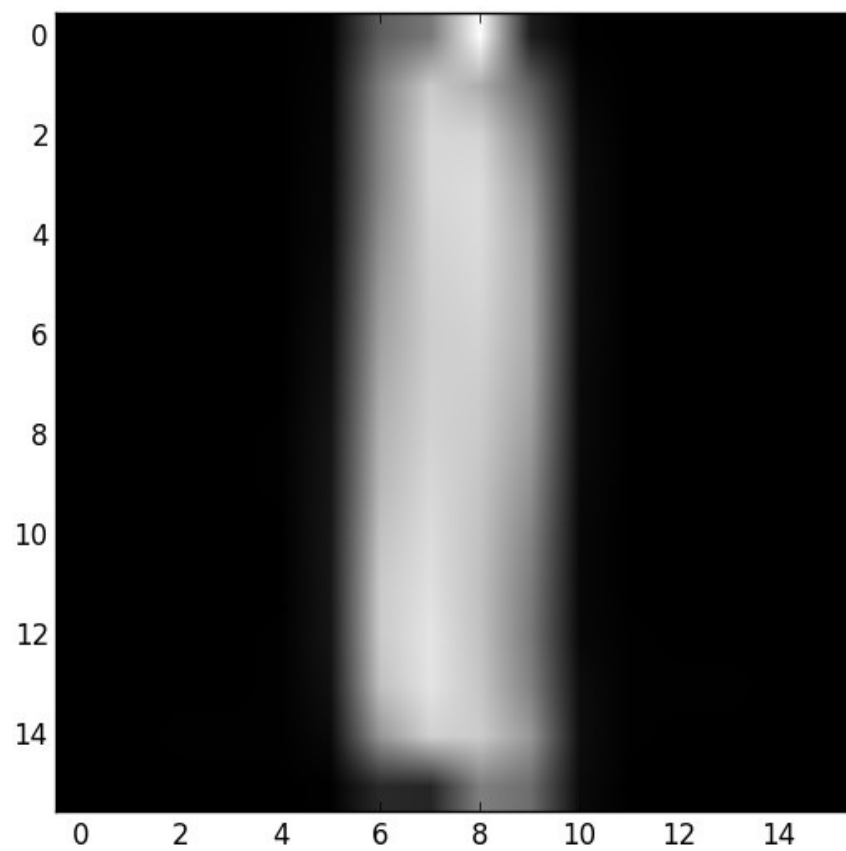
Arthur Ramolet

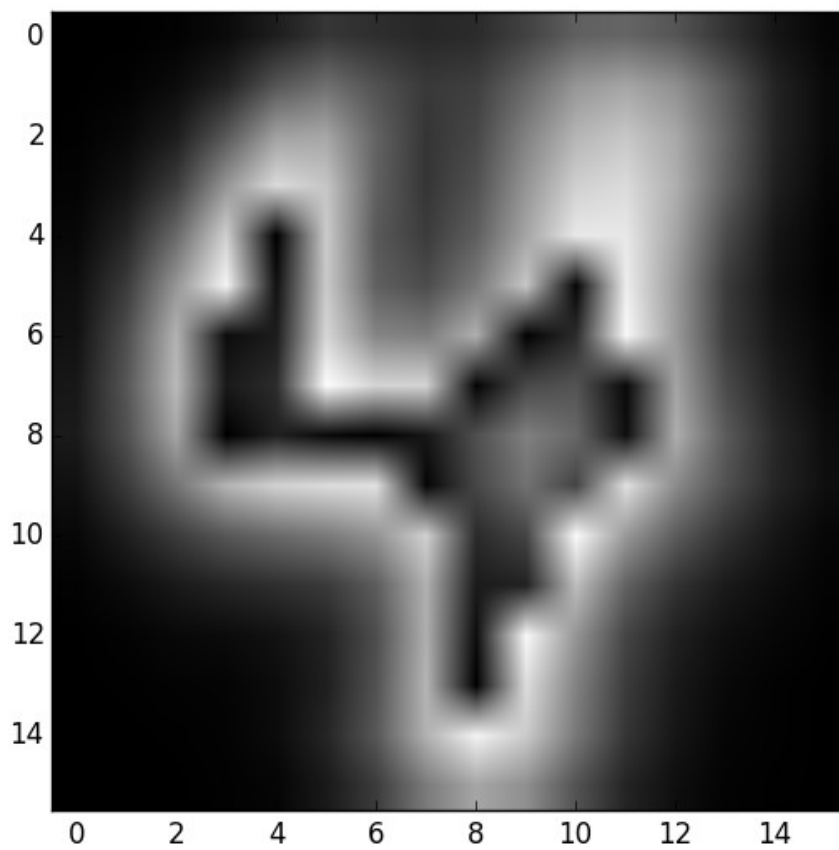
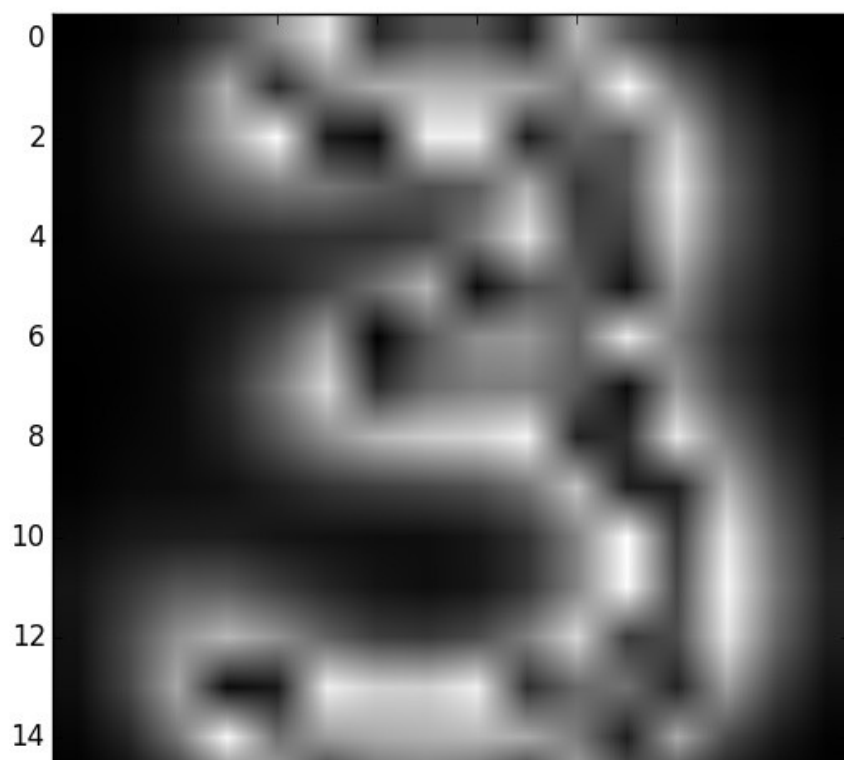
MAPSI Compte rendu 1

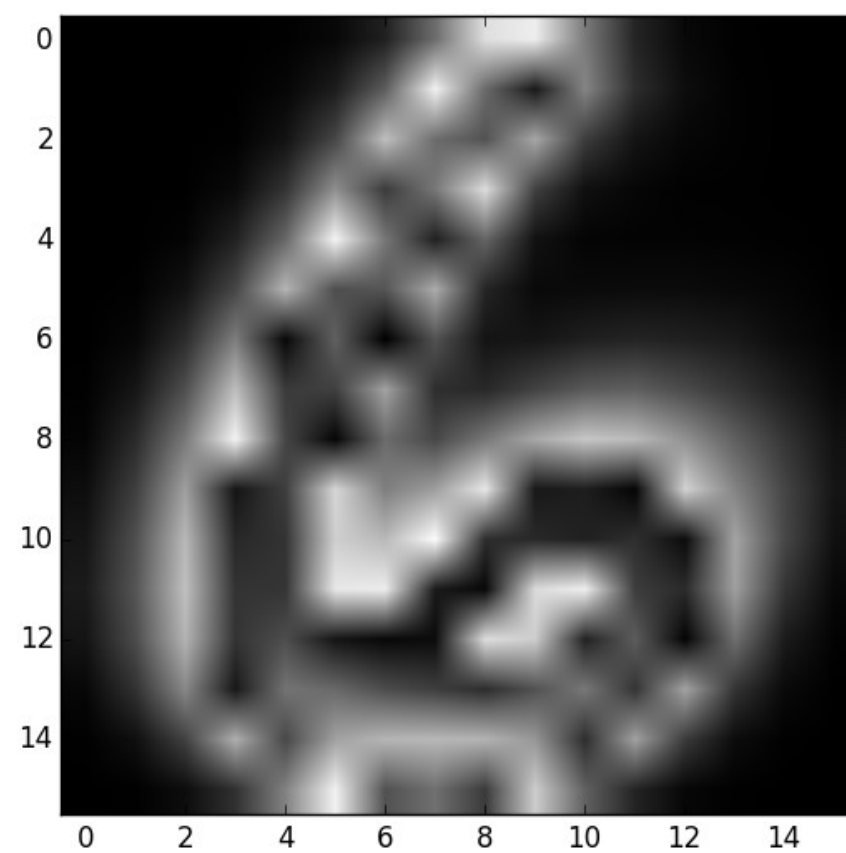
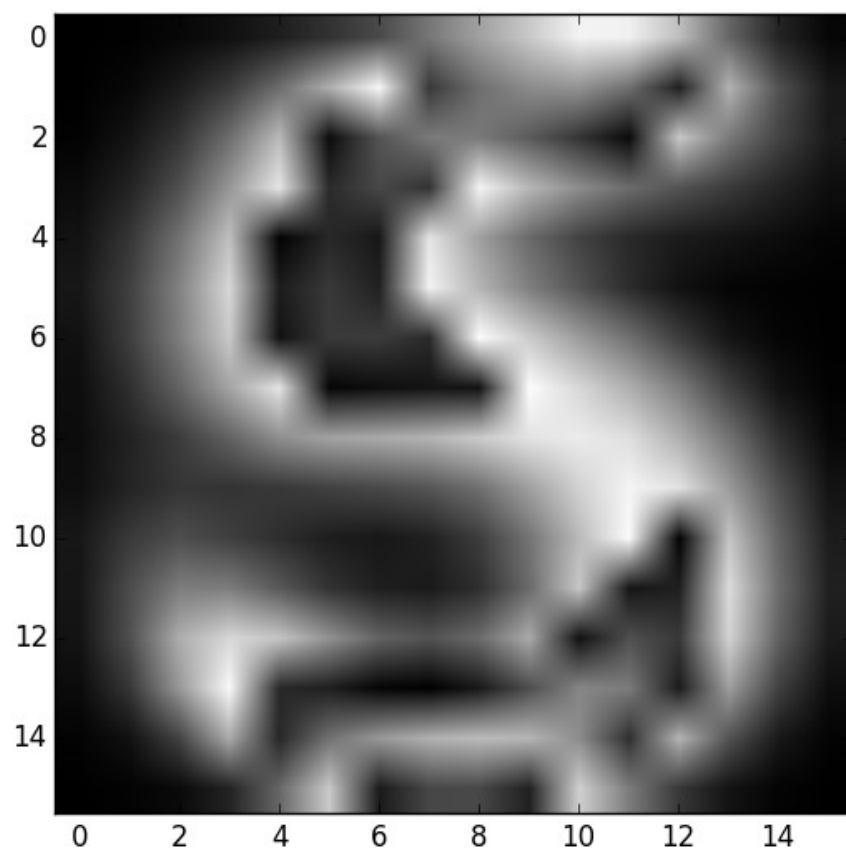
Approfondissements sur le TME 3 :

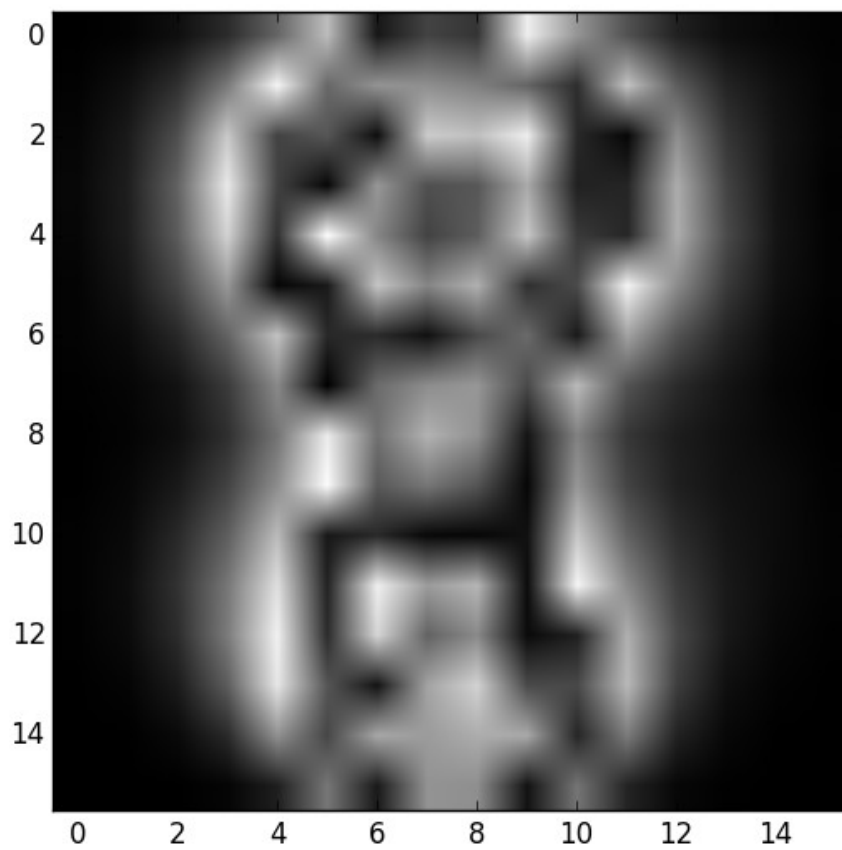
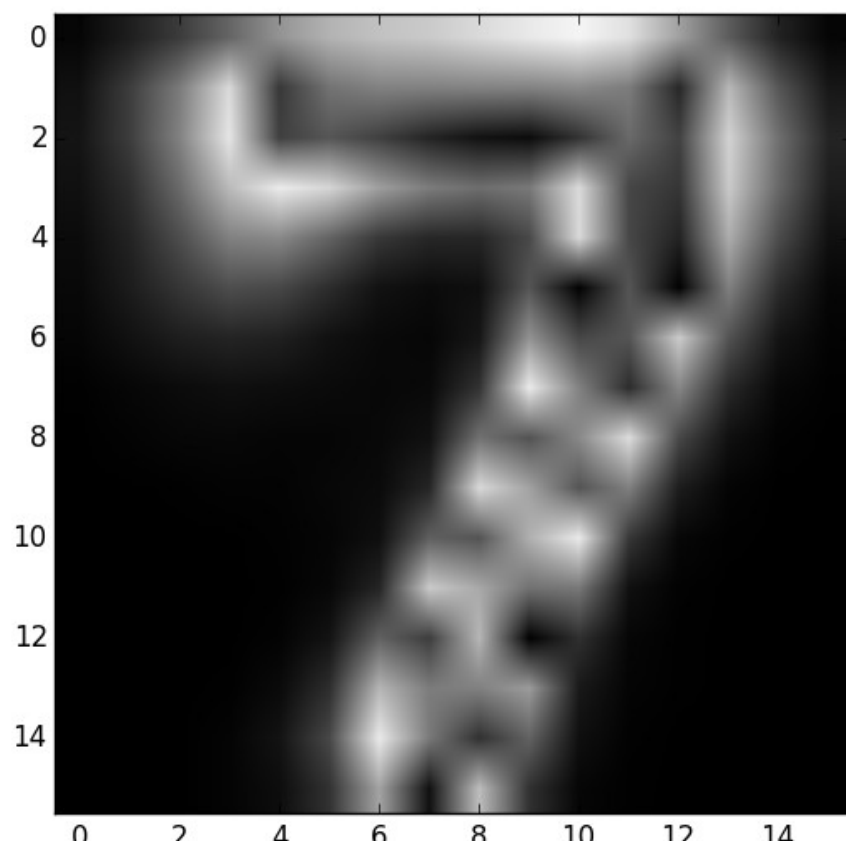
1. Images des  $\mu$

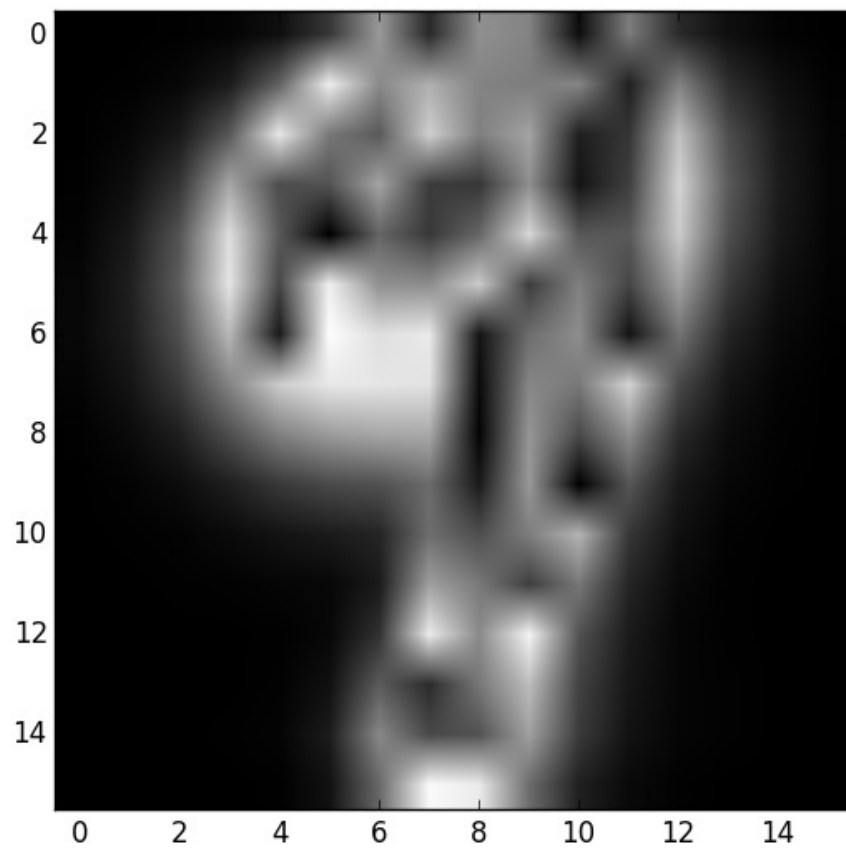




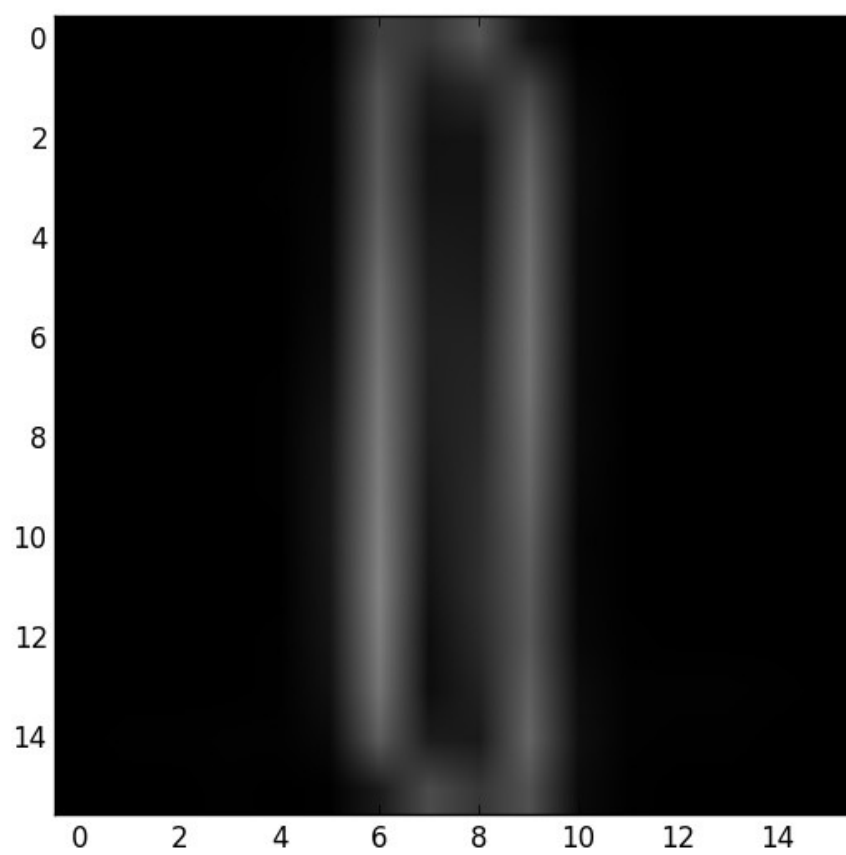
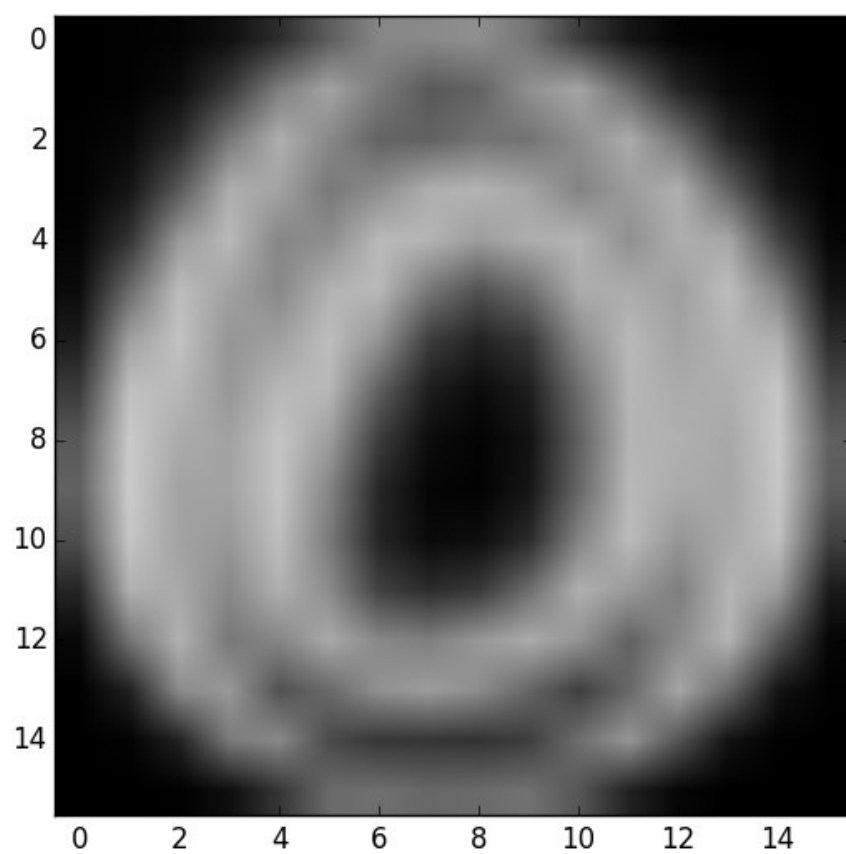


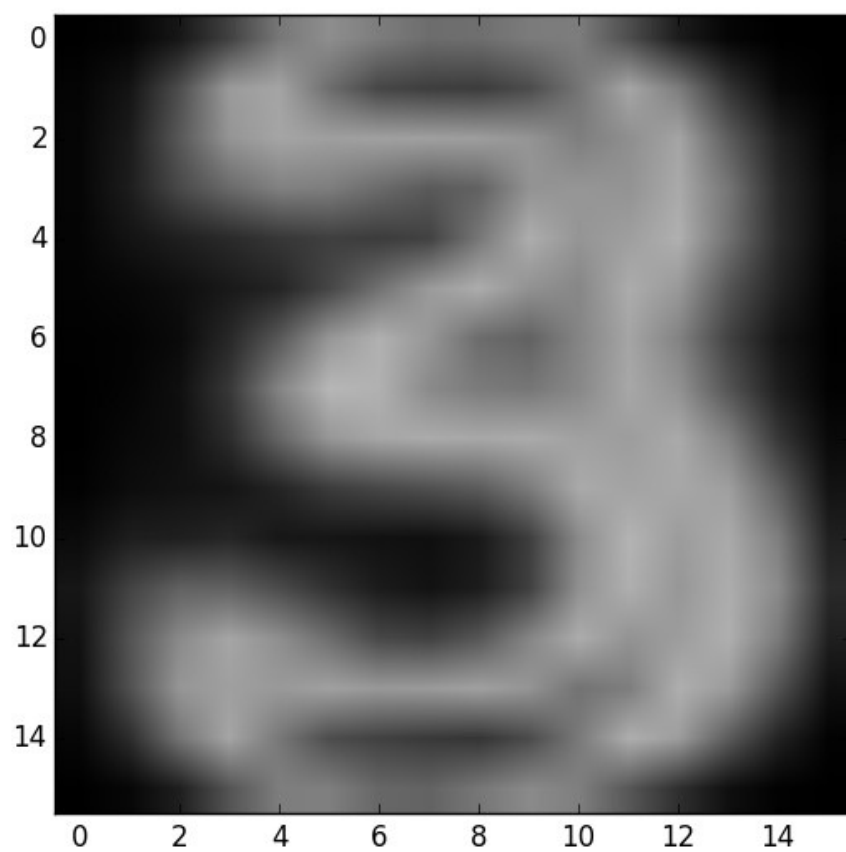
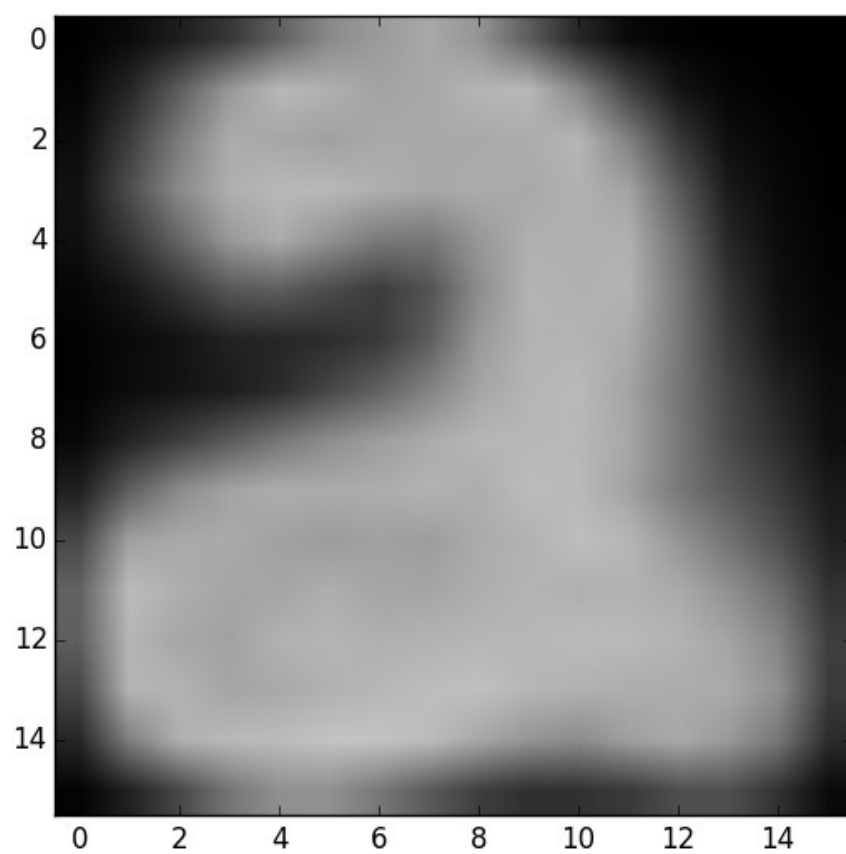




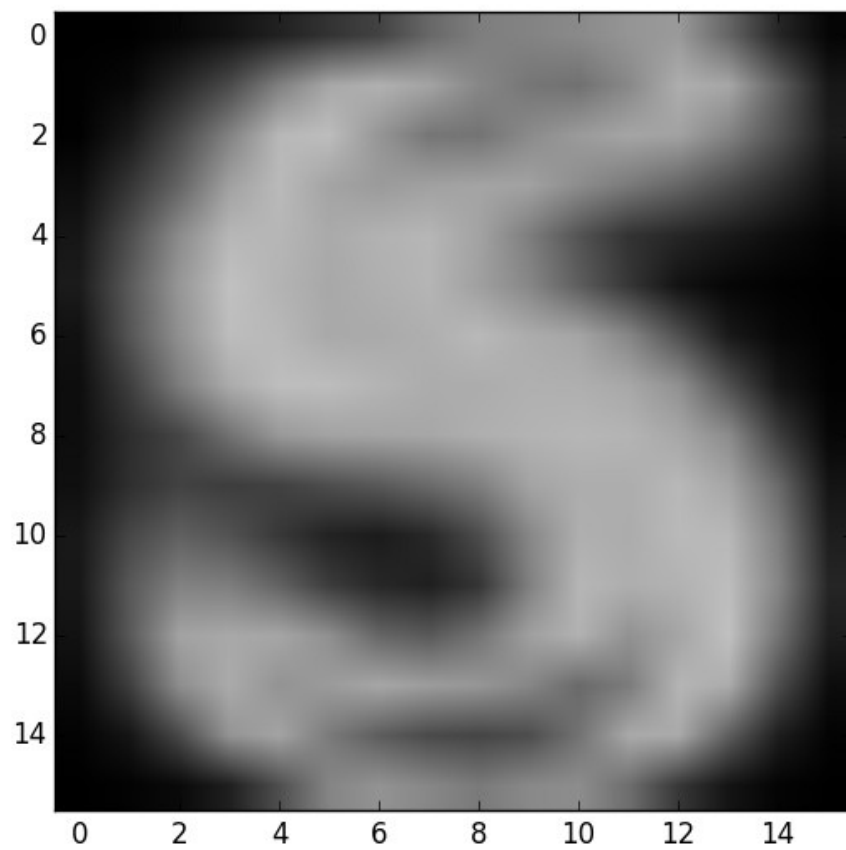
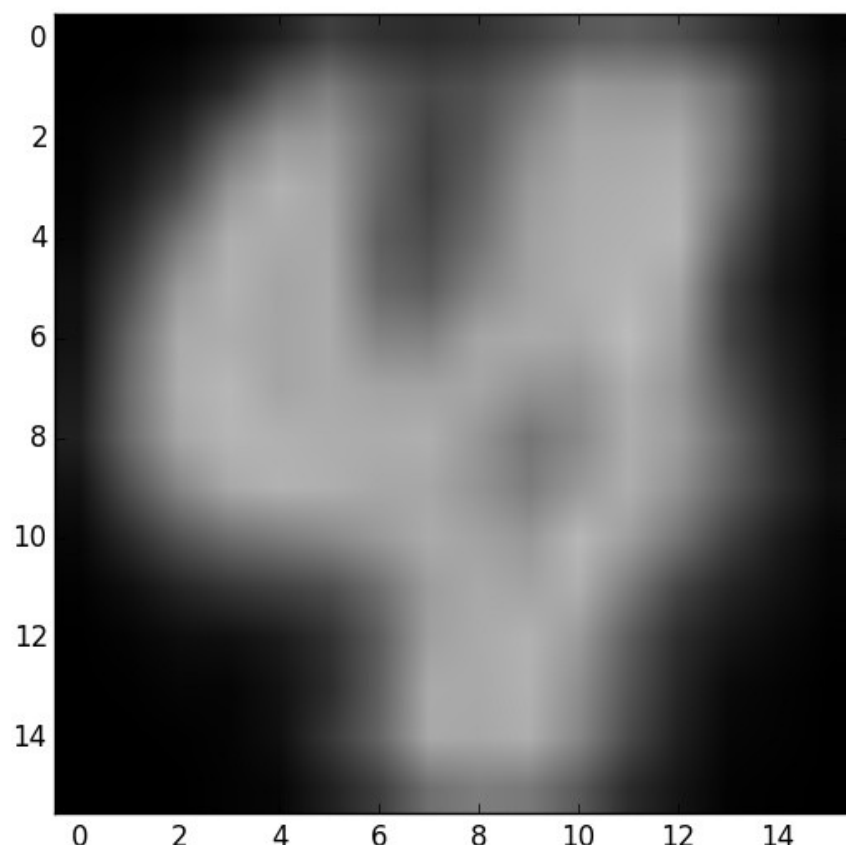


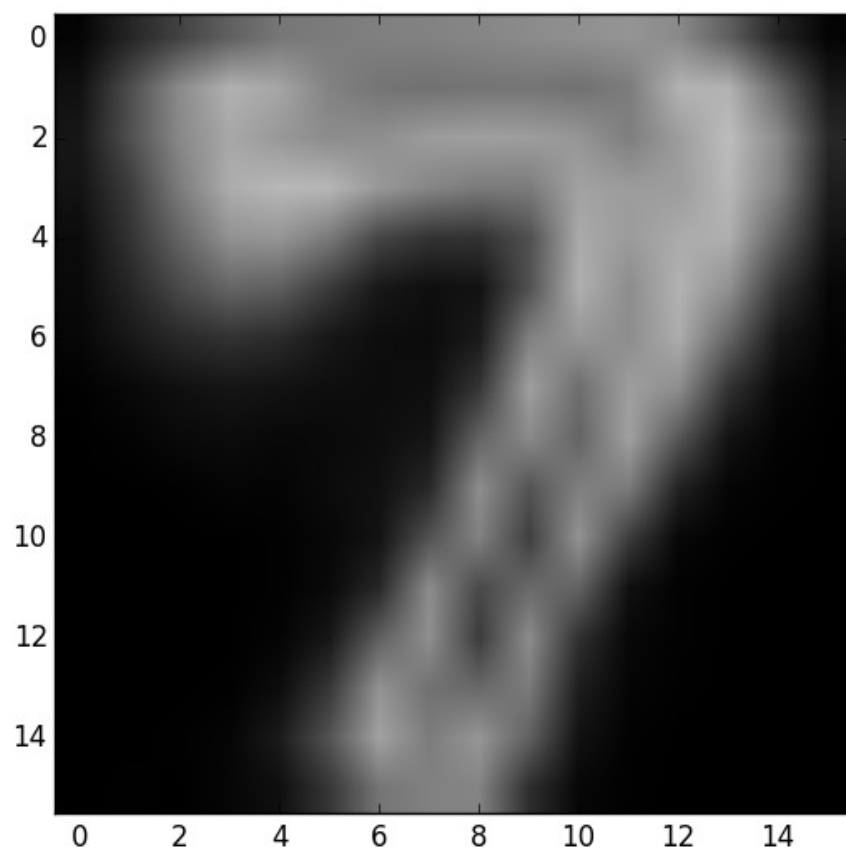
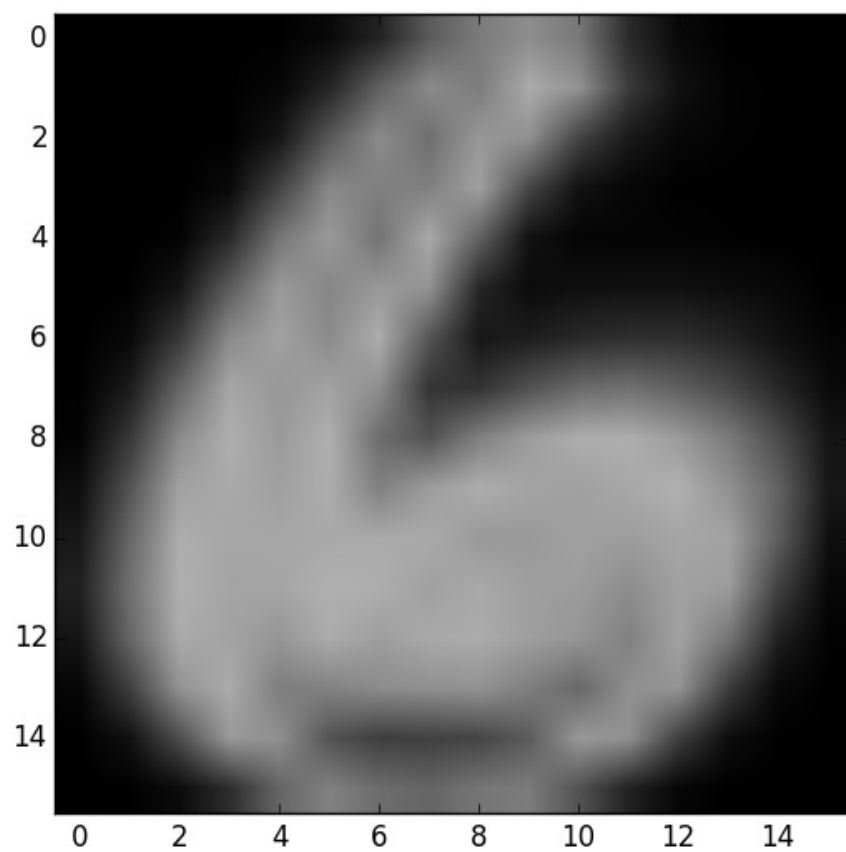
2. Images des  $\sigma_2$  :

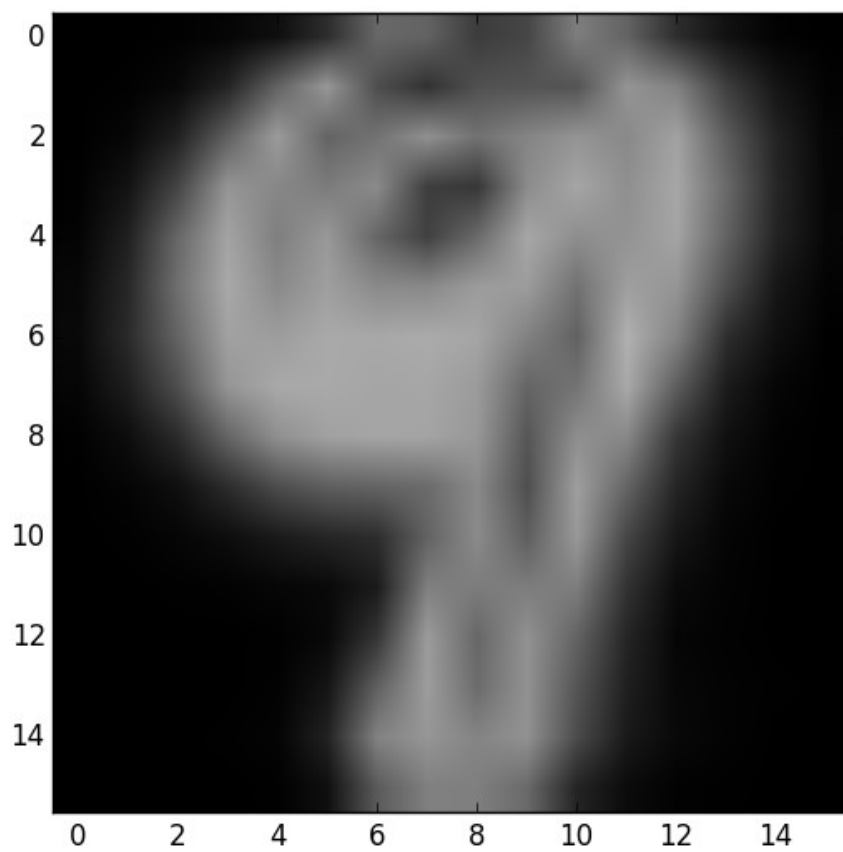
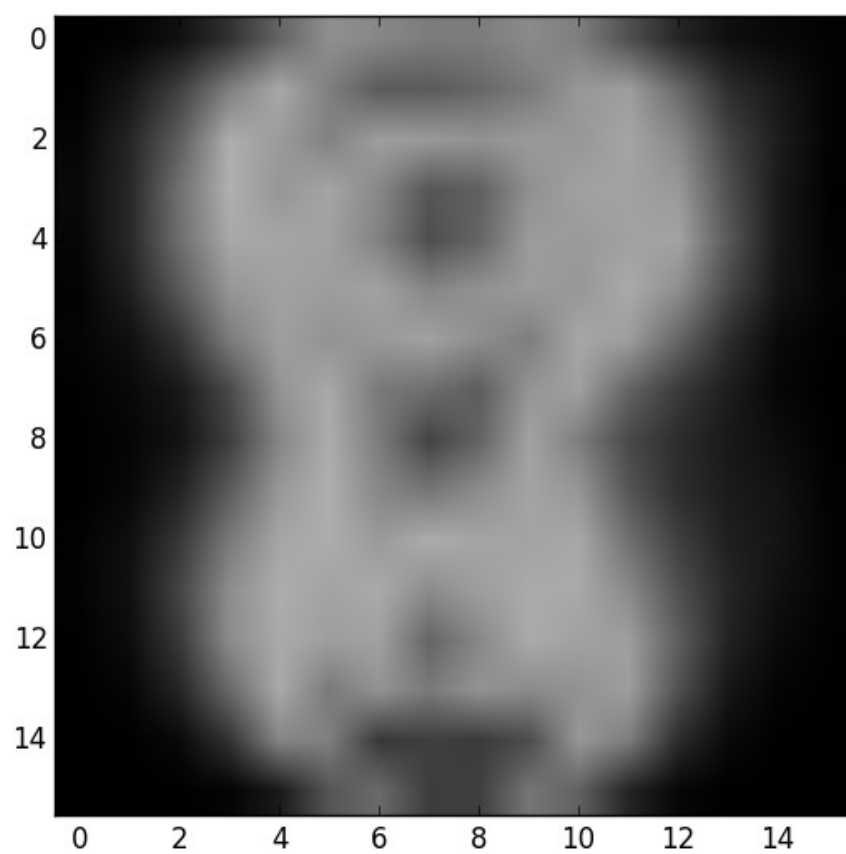






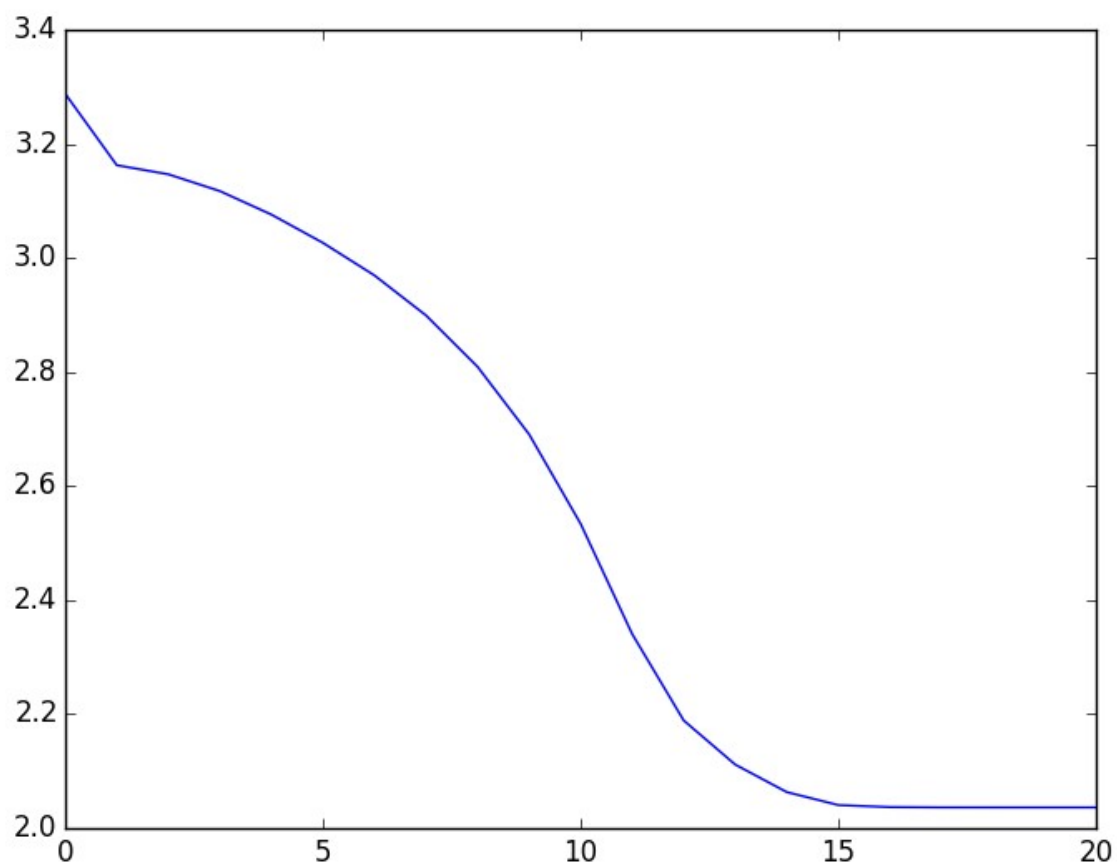




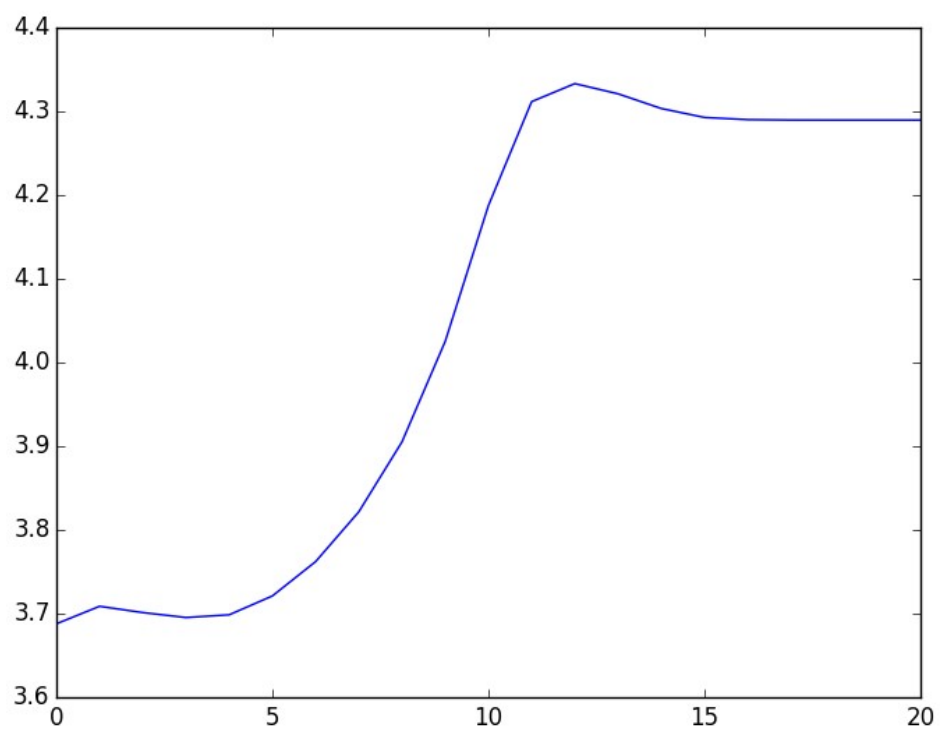


## Approfondissements sur le TME 4 :

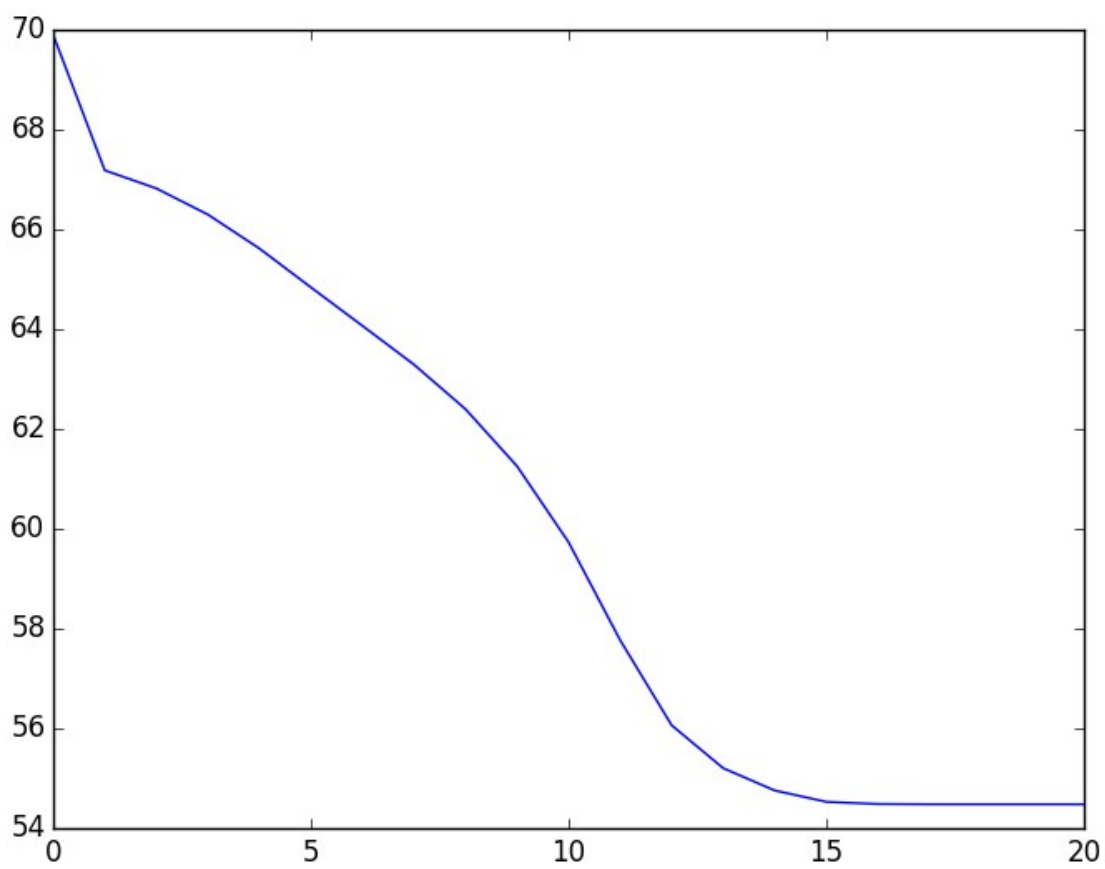
### 2. Courbe d'évolution des paramètres :



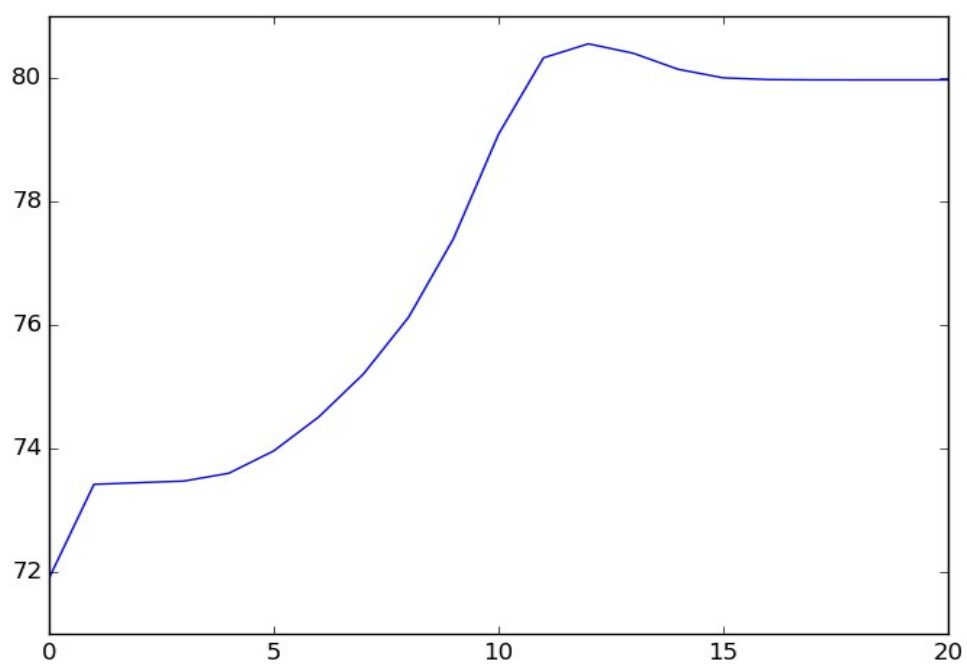
$\mu_{X0}$



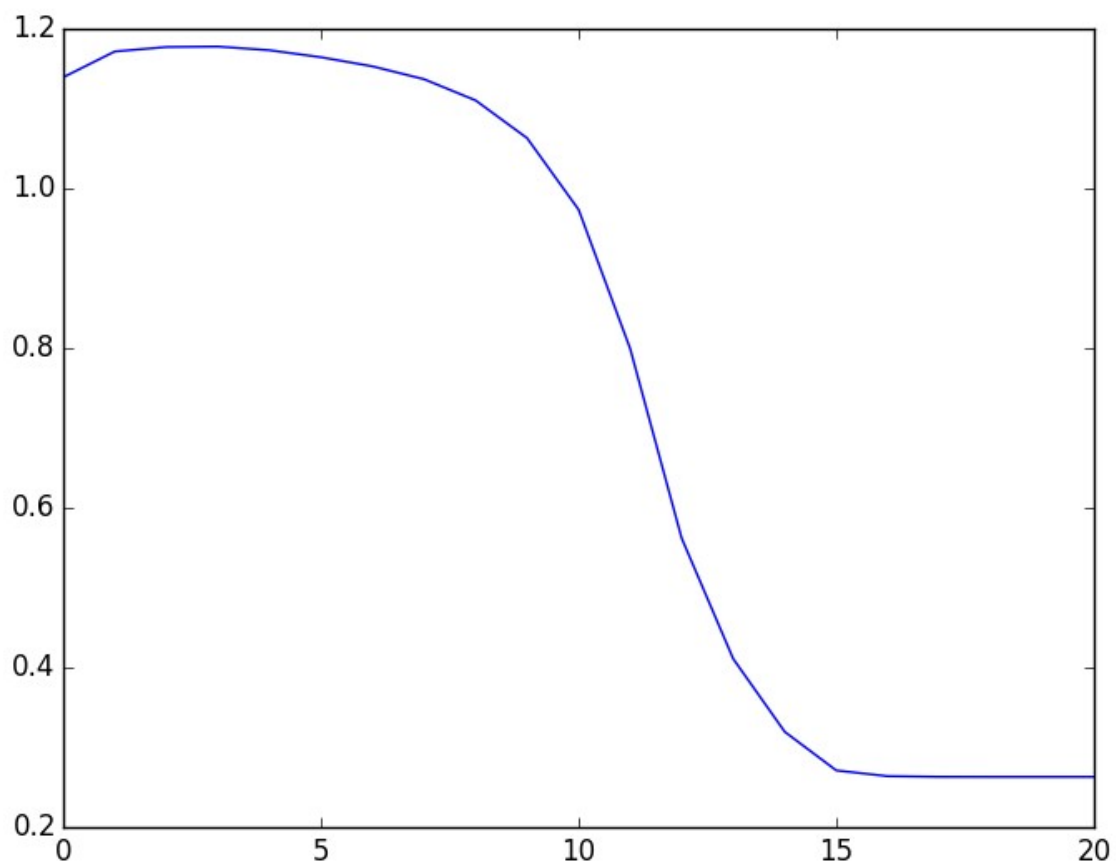
*muX1*



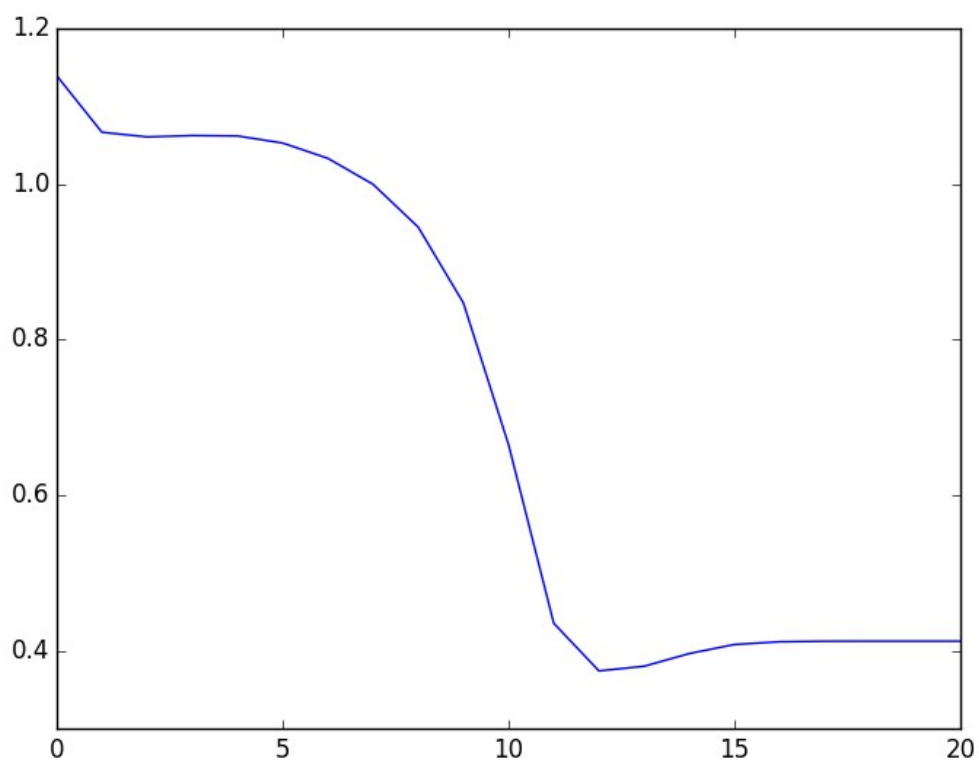
*muZ0*



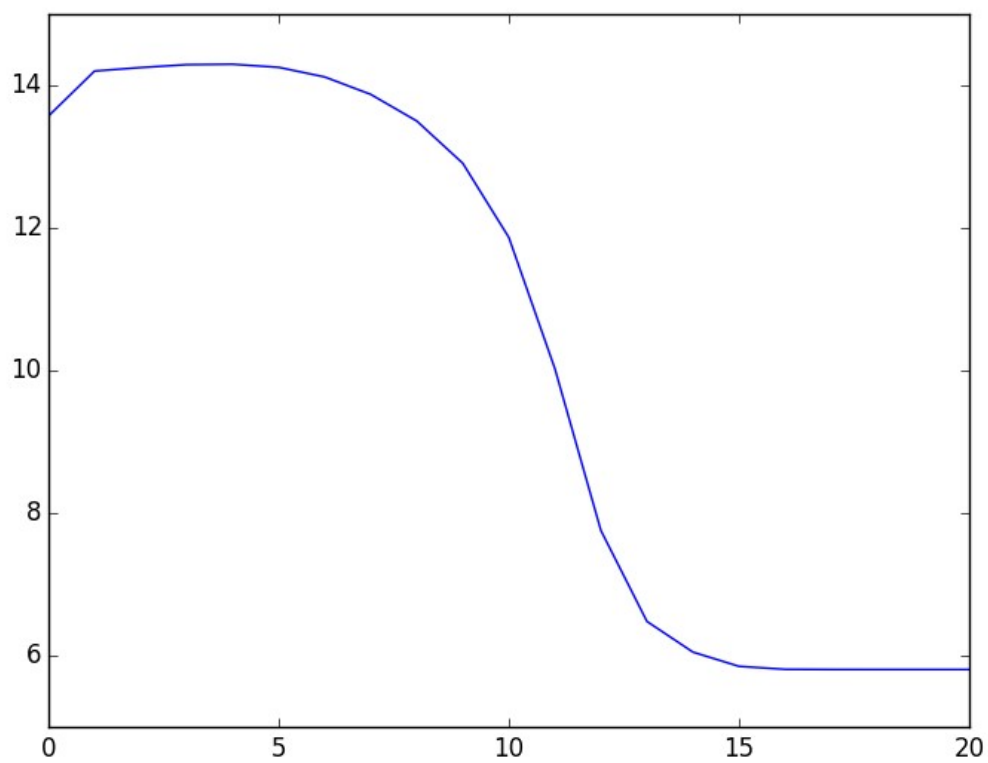
*muZ1*



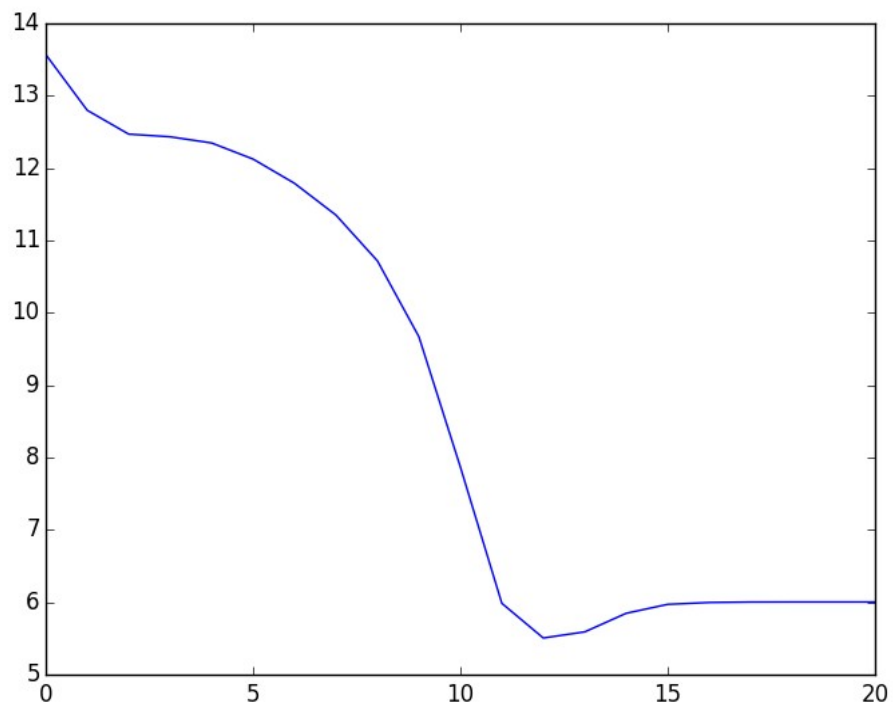
*sigmaX0*



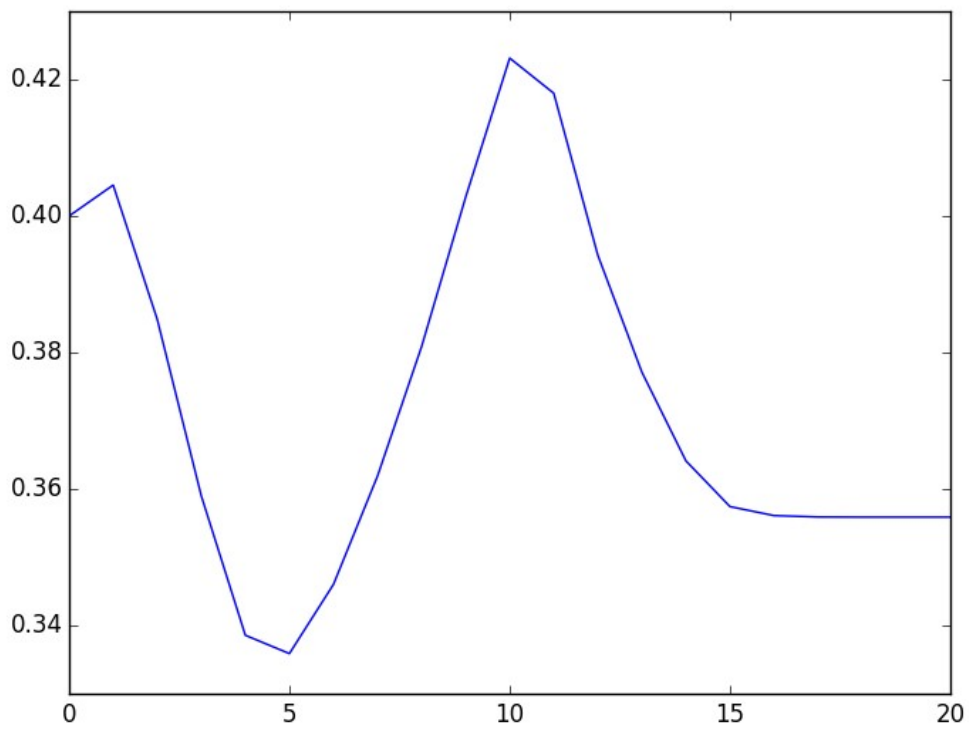
*$\sigma_{X1}$*



*Illustration 1:  $\sigma_{Z0}$*

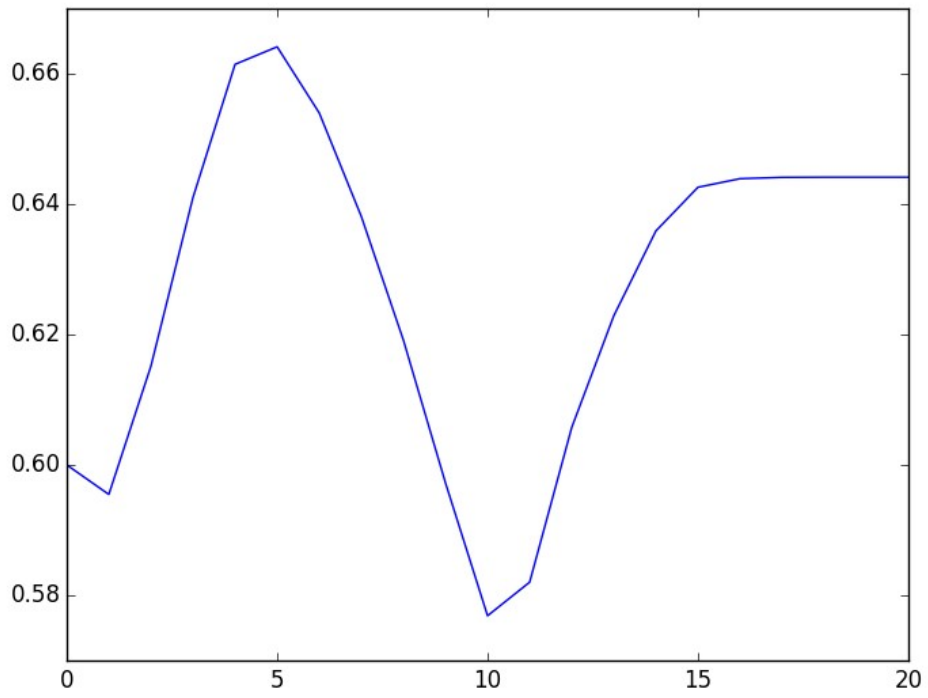


$\sigma_{Z1}$

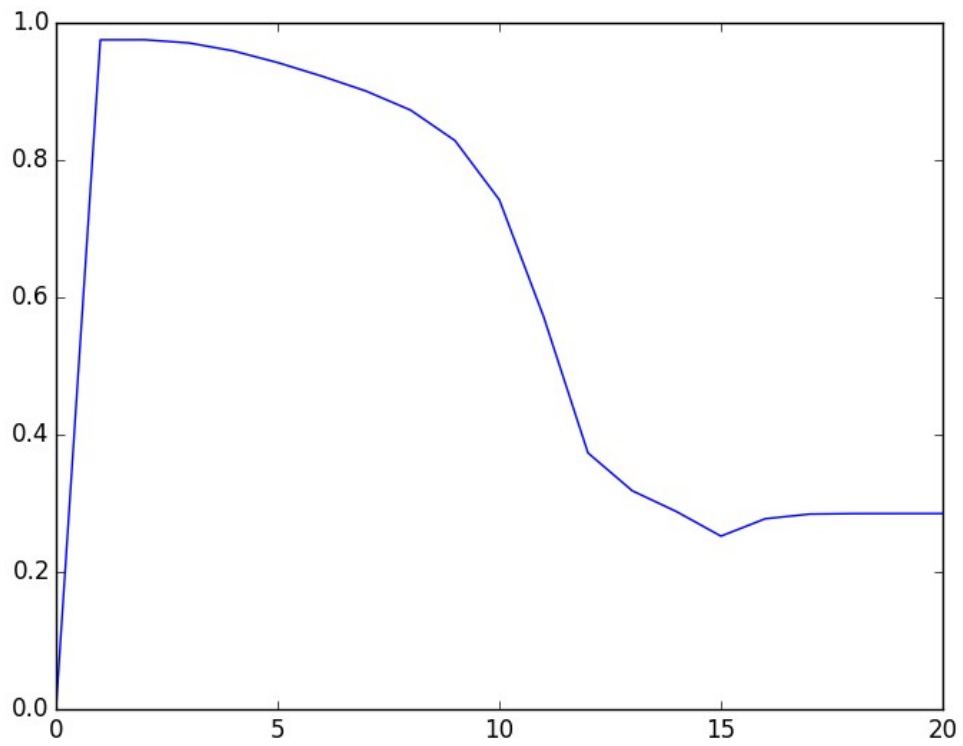


$\pi_0$

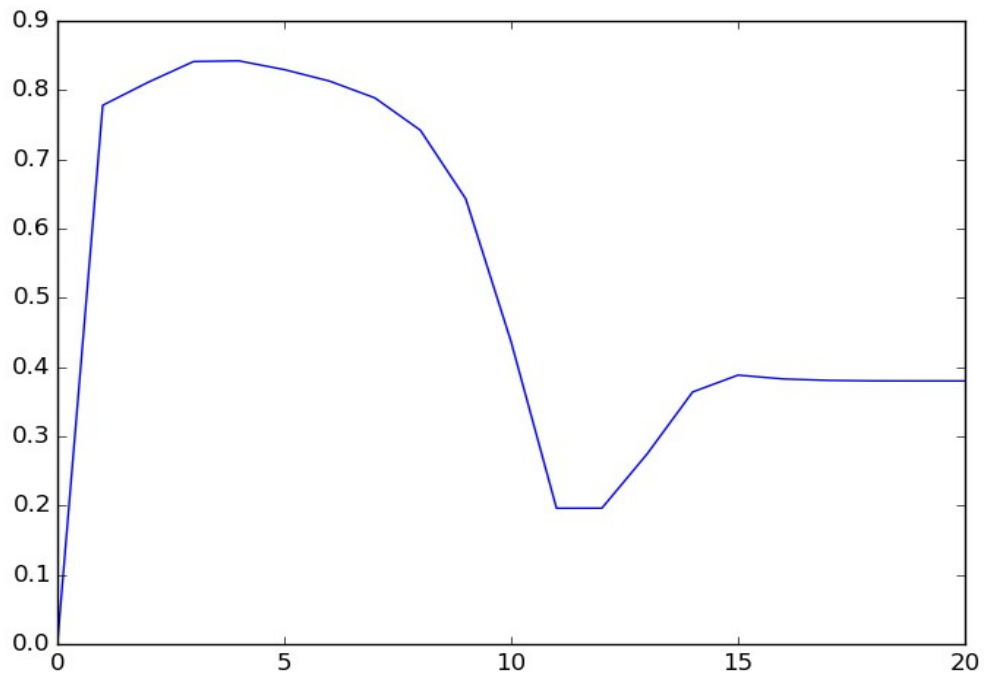




$\pi_1$



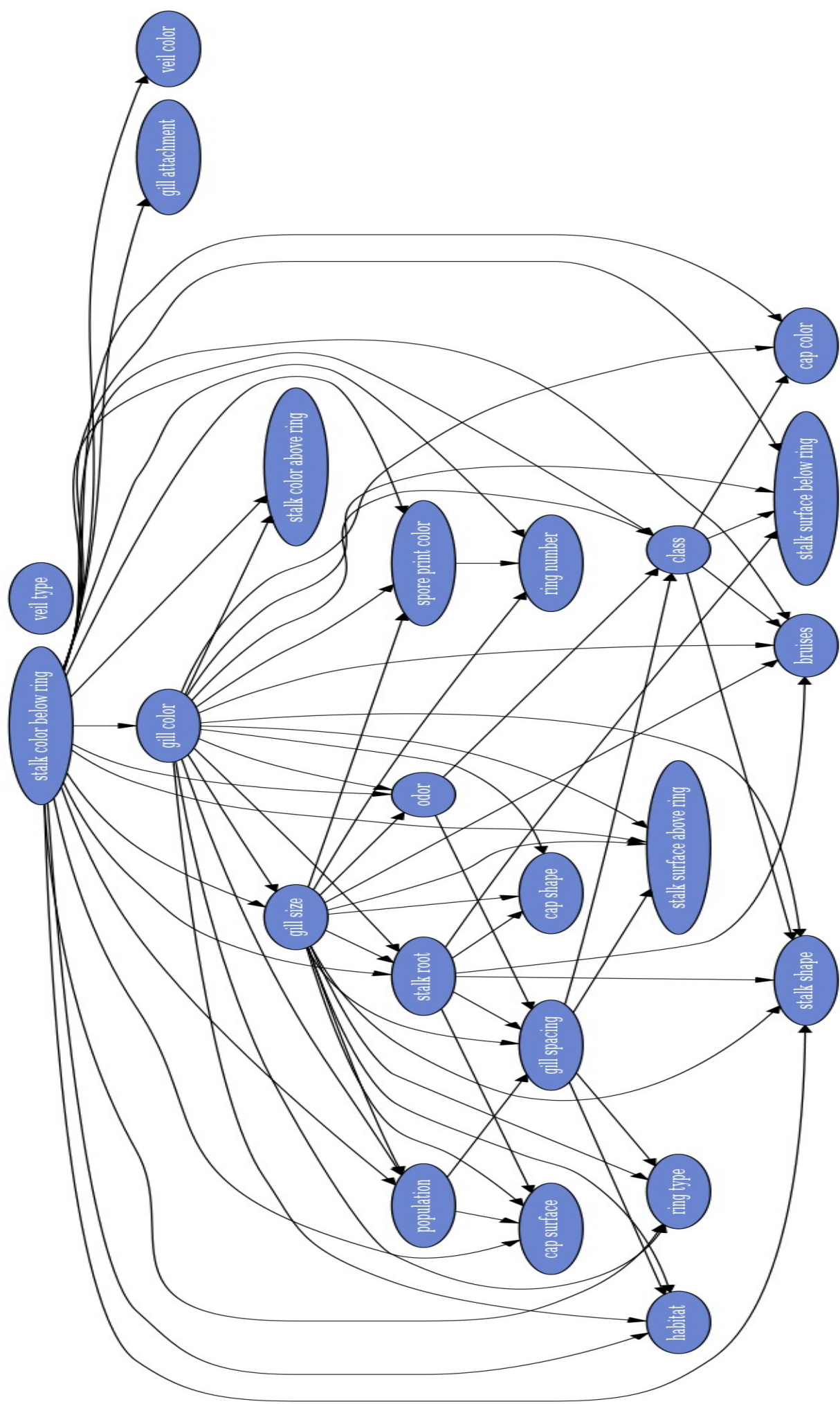
$\rho_0$



*rho1*

#### Approfondissements sur le TME 5 :

Mon code possédant un bug empechant l'affichage de la base agaricus lepiota (Mais fonctionnant avec les autres bases) (Un souci de bornes sur le calcul « Statistique du  $\chi^2$  conditionnel » Celui ci a été réalisé avec le code d'Olivier Bachollet.



## 2. Calculs de probabilité :

$P(\text{class} = p)$ , p signifie que votre champignon est vénéneux :

0.482028557361

$P(\text{gill spacing} \mid \text{class} = p)$  :

c : 0.97139938713

w : 0.0286006128703

$P(\text{class} \mid \text{ring\_number} = o, \text{gill size} = n, \text{cap shape} = b)$  :

Il y a 12 champignons qui respectent ces propriétés et ils sont tous vénéneux.

La probabilité d'avoir un champignon vénéneux pour si il a 1 anneau, que ses lamelles sont serrées et que son chapeau est en forme de cloche.

La probabilité est donc de 100 %.